

Targeting T1D

Modifying Disease

Moving Beyond Insulin

Corporate Presentation
Q4 2026

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Transforming Treatment for People Living with Autoimmune Diseases through a Unique Disease-modifying Therapy

At SAB BIO, our mission is to dramatically redefine what it means to be diagnosed with Type 1 Diabetes by developing a medicine to change the course of disease, not just treat symptoms



SAB BIO Investment Highlights
Potential for Significant Value Creation and Patient Impact

Leading Clinical-Stage Company Focused on Autoimmune Type 1 Diabetes

REDEFINING T1D TREATMENT LANDSCAPE

SAB-142, our lead product candidate, is a potentially best-in-class, disease-modifying therapy with a de-risked mechanism of action

Currently conducting a registrational Phase 2b SAFEGUARD study for newly diagnosed Stage 3 autoimmune type 1 diabetes (T1D)

LARGE MARKET OPPORTUNITY WITH ESTABLISHED REGULATORY PATHWAY

T1D is a multi-billion market opportunity with a global prevalence of ~9.5M

SAB-142 is initially focused on Stage 3 T1D (U.S. incidence of 64K) where the treatment landscape is expanding towards disease-modifying therapies along an informed regulatory pathway established by Tzield

UNIQUE MULTI-SPECIFIC ANTIBODY PLATFORM WITH HIGH BARRIERS TO ENTRY

Proprietary, wholly-owned, discovered in-house platform capable of generating a diverse repertoire of multi-specific, targeted, fully human immunoglobulins (hIgG)

This unique platform leverages a multi-level IP strategy with no biosimilar pathway creating high barriers to entry

WELL CAPITALIZED WITH TOP-TIER INVESTORS

Backed by a syndicate of life science specialist investors

Current cash position is expected to fully fund SAB-142's SAFEGUARD study with data expected 2H 2027

EXPERIENCED LEADERSHIP TEAM

Led by management team and board of directors with deep, proven biopharma experience spanning global clinical development, regulatory strategy, and commercialization

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SAB-142: Multi-Specific, Fully Human Anti-Thymocyte Globulin (hATG) for Delaying Onset and Progression of Type 1 Diabetes

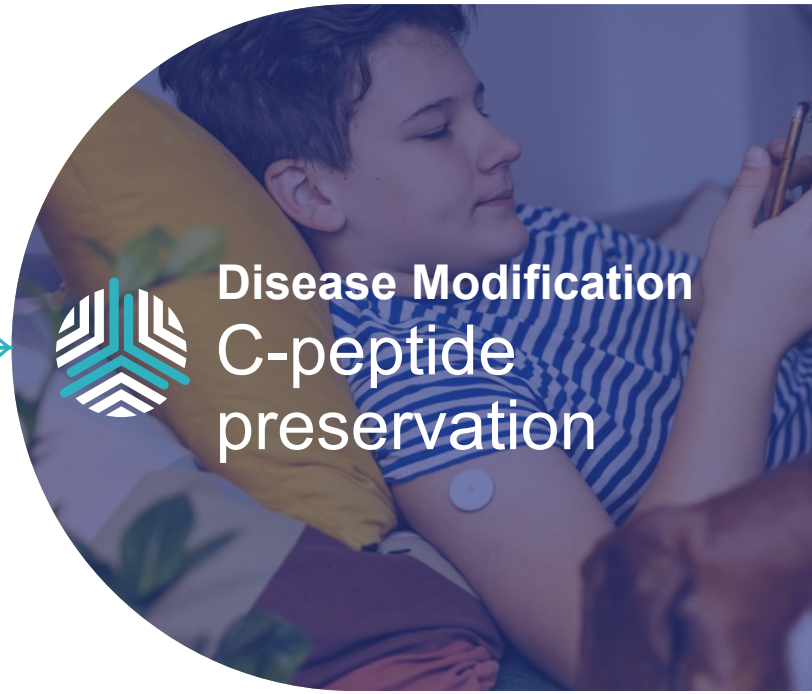
Multi-specific Immunotherapy
Targets Multiple CD Markers on Multiple Lymphocytes

CD2
CD3
CD4
CD8

SAB-142

Pharmacodynamic Profile
Makes Lifelong Redosing Possible

- **Exhaustion induced**
  re-established after maintenance dosing
- **Tregs preserved**
  after induction and maintenance doses
- **No lymphodepletion**
  transient margination only



Goal: develop a T1D therapy that immunomodulates T cells to preserve C-peptide while avoiding immunosuppression

PHASE 1 EVIDENCE

- Clinically validated MOA with **favorable safety profile and low immunogenicity**
- **Early C-peptide signal** consistent with beta cell preservation

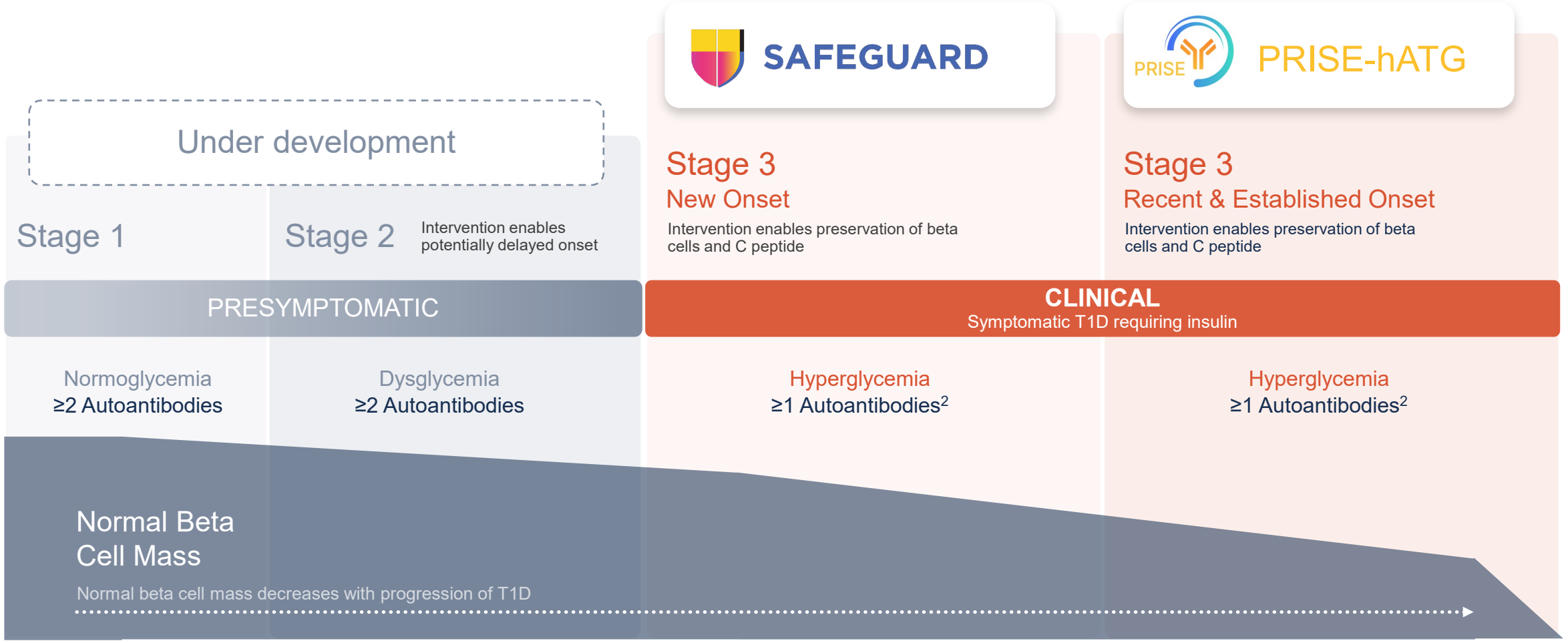
PROGRAM STATUS

- Registrational Phase 2b **SAFEGUARD** in new onset T1D patients ages 5 to 40

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The Opportunity To Treat T1D Across The Entire Disease Continuum

A potentially differentiated approach to immunomodulation, safe redosing, and lifelong T1D care



Early intervention is essential. Life-long disease modification is possible with safe and reliable redosing

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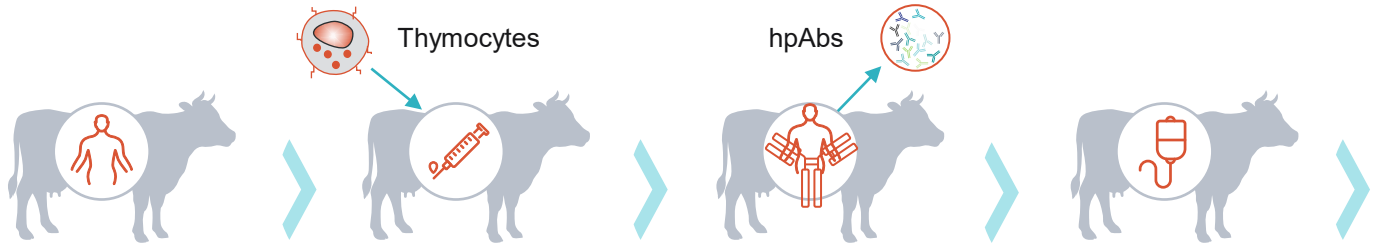
1. https://pmc.ncbi.nlm.nih.gov/articles/PMC5321245/
2. American Diabetes Association Professional Practice Committee. Diagnosis and classification of diabetes: standards of care in diabetes—2024. Diabetes Care. 2024;47(Suppl 1):S20—S42

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SAB-142 is Manufactured Using our Fully Human Immunoglobulin G (hIgG) to Treat and Prevent Autoimmune Disorders

SAB has a proprietary platform that can produce targeted, fully human, multi-specific antibodies without the need for human donors through its Tc Bovine platform

Upstream at SAB's Biosecure Facility



Tc Bovine

Transchromosomic (TC) bovine genetically designed to produce human antibodies

Hyperimmunization

Tc Bovine immunized with target disease antigen to generate antibodies

Human Antibody Production

Bovine produce fully human antibodies to disease target that circulate in the blood stream

Plasmapheresis

Tc Bovine™ are plasma donors, and antibodies are collected in the form of plasma



Downstream at SAB's cGMP Facility



Purification

Purification process isolates antibodies from plasma

Human Antibodies

Purified and formulated human multi-specific polyclonal antibodies



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Significant Unmet Need in Type 1 Diabetes

An evolving treatment landscape with a regulatory pathway informed by Tzield

Stage 2 (Delay Onset) Market

Tzield™ (teplizumab-mzwv)

Approved in Stage 2 patients to delay the onset of T1D

sanofi

$2.9B Sanofi acquisition of Provention Bio

(Tzield in Phase 3 for Stage 3 at time of acquisition)

Stage 3 (Newly Diagnosed) Market

U.S. MARKET FOCUS

$20B+

Total market opportunity in newly diagnosed T1D

JUNE 2026 **Tzield FDA approval**
Ages 8–17 within 8 wks of T1D diagnosis

64,000 U.S. Patients Diagnosed Annually[1]

2.0M

People with T1D cases in the US[2]

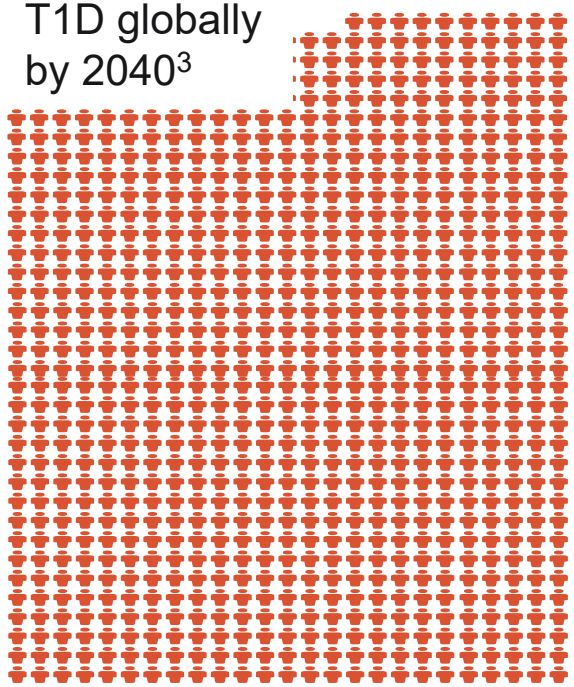
500,000 Patients WW Diagnosed Annually[2]

9.5M

People with T1D globally in 2025[3]

14.7M

People with T1D globally by 2040[3]



Source: [1] Rogers MAM, Kim C, Banerjee T, Lee JM. Fluctuations in the incidence of type 1 diabetes in the United States from 2001 to 2015: a longitudinal study. BMC Med. 2017 Nov 8;15(1):199. doi: 10.1186/s12916-017-0958-6. PMID: 29115947; PMCID: PMC5688827. [2] Jacobsen LM, Schatz DA. Type 1 Diabetes: A Review. JAMA. Published online February 16, 2026. doi:10.1001/jama.2026.0048 [3] https://www.t1dindex.org/

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SAB-142: A Clinically Validated De-risked Mechanism of Action

rATG has been tested across multiple studies in T1D patients

2013 — Thymoglobulin

rATG Tested in Academic Setting **(START Study)**

Dosage	6.5mg/kg
Lymphodepletion	⚠
C-peptide	✓
HbA1c	✓
Serum Sickness	⚠
Ability to redose	⊘

(Gitelman et al., 2013)

2018 — Thymoglobulin

rATG Tested in Academic Setting **(TN-19 Study)**

Dosage	2.5mg/kg
T-cell *Exhaustion*	✓
Lymphodepletion	⚠
C-peptide	✓
HbA1c	✓
Serum Sickness	⚠
Ability to redose	⊘

(Haller et al., 2018)

3Q 2025 — Thymoglobulin

rATG Tested in Academic Setting **(MELD-ATG Study)**

Dosage	Multiple
C-peptide	✓
HbA1c	✓
Lymphodepletion not an efficacy driver	✓
Serum Sickness	⚠
Ability to redose	⊘

(Mathieu et al., Lancet, 2025)

SAB-142: hATG tested in Phase 1 **(HUMAN Study)**

2025 – 2026

SAB-142 tested in Healthy Volunteers and T1D patients

Dosage	Multiple
T-cell *Exhaustion*	✓
C-peptide*	✓
HbA1c**	*N/A*
Serum Sickness	⊘
Ability to redose	✓

(January 2025, December 2025, April 2026)

2013 — 2018 — 2025 – 2026

Leveraged clinical findings showing low-dose rATG (2.5 mg/kg) effectively mitigates disease

SAB applied the clinical findings that exhaustion correlated with efficacy rather than depletion

*Measured in T1D cohort only (n=6)
**Not measurable in healthy volunteers and T1D cohort

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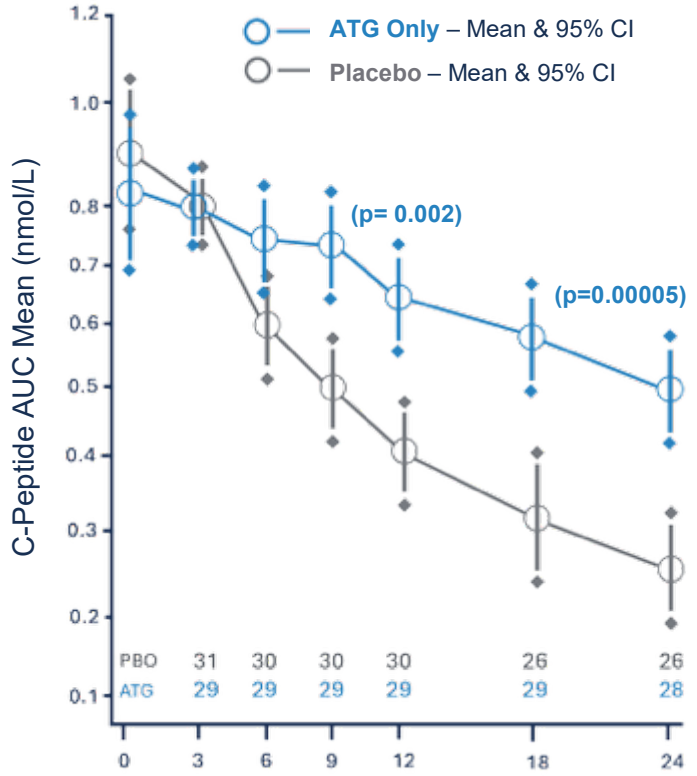
Rabbit ATG: De-Risked Mechanism of Action

TN-19: Low-Dose rATG* Preserved C-peptide in New Onset T1D 1 and 2 Years Post Treatment

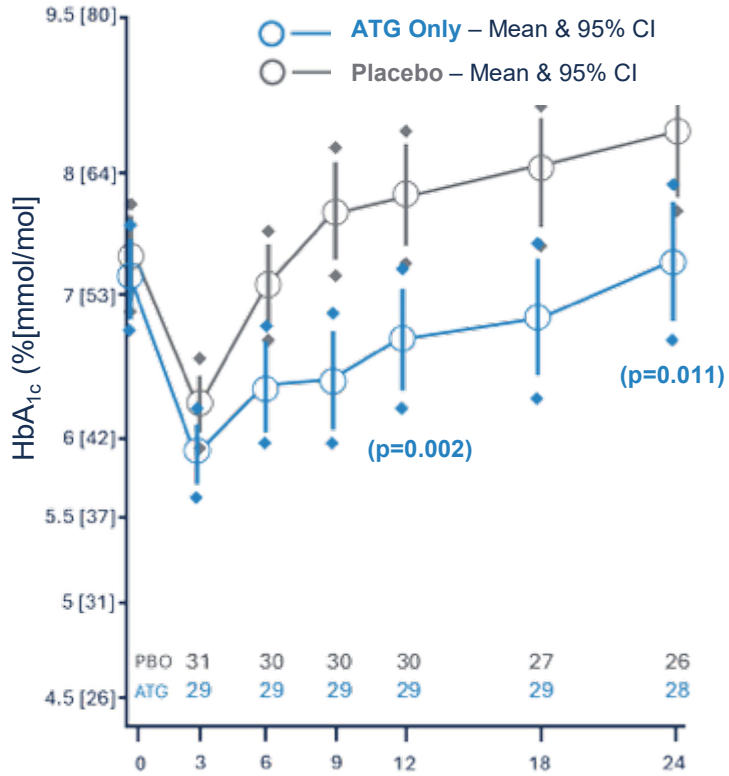
C-peptide, the cleavage product of proinsulin, released in equal amounts with insulin, reflects a person's ability to produce endogenous insulin and is the standard biomarker of pancreatic β-cell function

Thymoglobulin®
Anti-thymocyte Globulin (Rabbit)

Decline in C-peptide AUC Mean
Over Time by Treatment Group



HbA_{1c} Over Time
by Treatment Group



Time on Study (months)

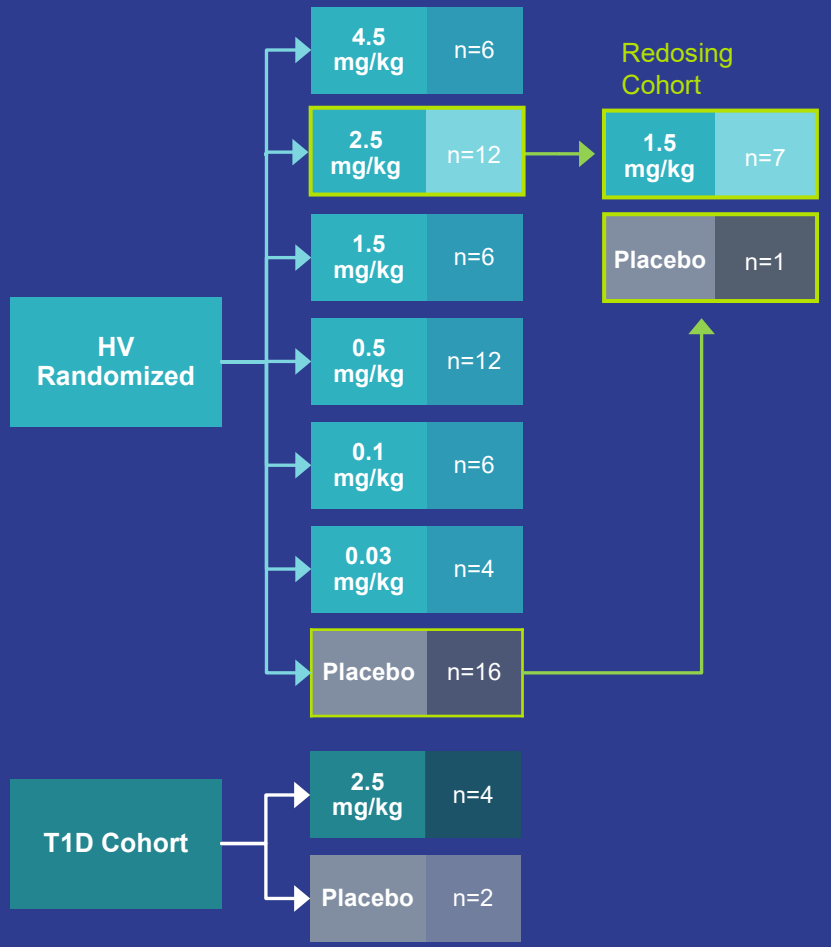
Haller et al. Diabetes. 2019 Jun;68(6):1267-1276.

*Haller MJ, Long SA, Blanchfield JL, Schatz DA, Skyler JS, Krischer JP, Bundy BN, Geyer SM, Warnock MV, Miller JL, Atkinson MA, Becker DJ, Baidal DA, DiMeglio LA, Gitelman SE, Goland R, Gottlieb PA, Herold KC, Marks JB, Moran A, Rodriguez H, Russell WE, Wilson DM, Greenbaum CJ; Type 1 Diabetes TrialNet ATG-GCSF Study Group. Low-Dose Anti-Thymocyte Globulin Preserves C-Peptide, Reduces HbA_{1c}, and Increases Regulatory to Conventional T-Cell Ratios in New-Onset Type 1 Diabetes: Two-Year Clinical Trial Data. Diabetes. 2019 Jun;68(6):1267-1276.

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Phase 1: HUMAN* Trial Study Design

Randomized, double-blind, placebo-controlled, single- and multiple- ascending dose, adaptive design clinical study



SAB-142's Phase 1 Data Demonstrated Encouraging Efficacy Signals with Clinically Validated, Multi-specific MOA with Sustained Immunomodulation

Efficacy — Encouraging early signals of C-peptide preservation in T1D patients >2 yrs from diagnosis

- Early C-peptide signal consistent with beta cell preservation with 3 out of 4 T1D participants with super responder status
- Glycemic control improvement not associated with increases in exogenous insulin use

Immunogenicity — SAB-142 has low immunogenicity

- Not observed to cause anti-drug antibodies
- Enables safe and reliable redosing

PK/PD — Demonstrate sustained "T-cell exhaustion" signature

- Clinically validated by rATG and other T1D T-cell targeting biologics
- Demonstrated correlation with C-peptide preservation based on precedent rATG studies and natural course of T1D

Safety and Tolerability — Position SAB-142 for a convenient, potentially twice a year dosing regimen

- No sustained lymphodepletion leading to immuno-suppression; no neutropenia observed
- No serum sickness

*HUman anti-thymocyte biologic in first-in-MAN clinical study

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Complete Phase 1 Safety Data Support Outpatient Dosing and Chronic Treatment Potential

HV and T1D

Phase 1 data confirmed advancement into a registrational Phase 2b study in newly diagnosed adult, adolescents, and pediatric T1D patients (age 5-40)

Key Safety Outcomes

- No serum sickness (0%, N=0/68)
- No ADA-related AEs at any dose or cohort (0%, N=0/68)
- No drug-related SAEs

Observed AEs

- Headaches, a typical AE for T-cell modifying therapies
- Mild CRS (Grade 1 only)
- Transient infusion-site reactions (erythema, pruritus, tenderness, phlebitis)

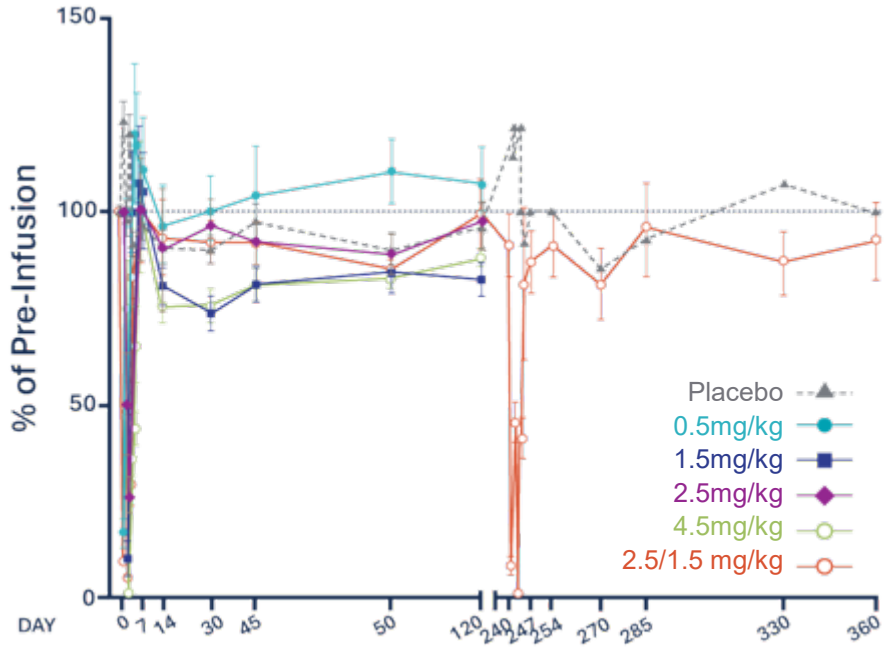
Transient On-Target PD Effects

- Transient lymphopenia indicative of target engagement, a desired PD effect
- Lymphopenia shown to self-resolve in 1–3 days
- No lymphocyte killing/sustained lymphodepletion, a key risk factor of immunosuppression – supports chronic redosing potential

Hematologic Safety

- No reductions in RBCs, neutrophils, lymphopenia, or thrombocytopenia from Day 7 onward

Mean Absolute Lymphocytes ± SEM Normalized to Original Pre-SOI in HV



Lymphocytes were shown to fully recover to baseline across all doses including 4.5mg/kg and after repeat dosing

Note: AE = Adverse Events; SAE = Serious Adverse Events; CRS = Cytokine Release Syndrome; PD = Pharmacodynamics; RBCs = Red Blood Cells SEM = Standard Error of the Mean; SOI = Start of Infusion

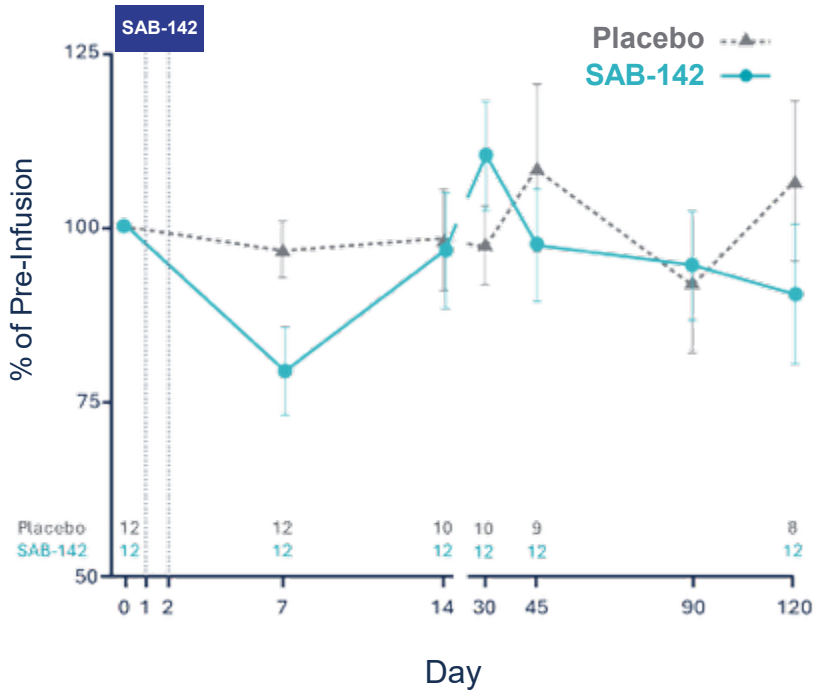
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SAB-142 Demonstrates a Comparable MOA to rATG, including Induction of Key T-cell Exhaustion Markers that have been Correlated with C-peptide Preservation in Prior rATG Studies

HV

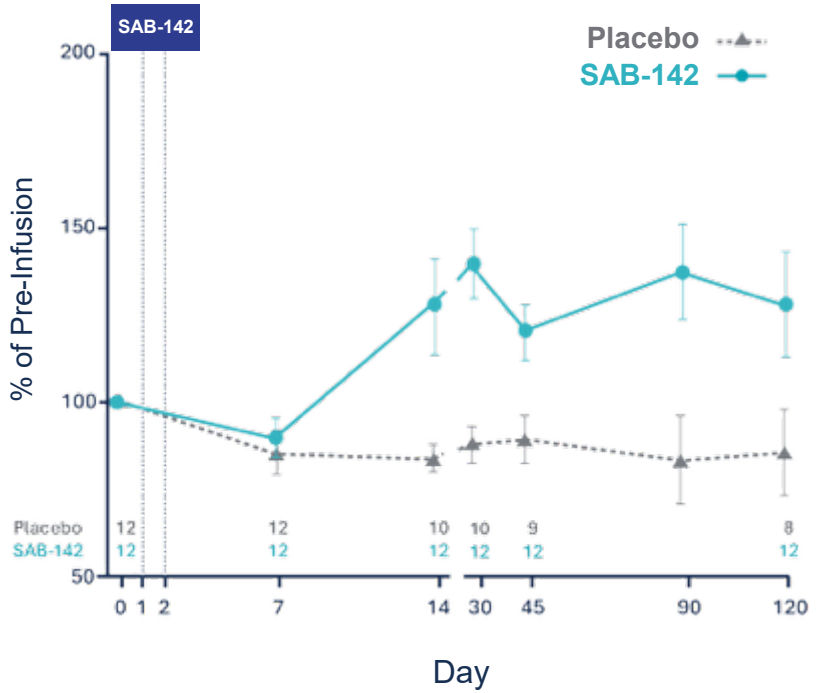
1 Treg preservation

Treg ($CD3^+$ $CD4^+$ $CD127^{lo}$ $CD25^+$ $FoxP3^+$) **± SEM**



2 Increase in CD4 exhaustion

Relative PD-1^+ Tconv Cells ± SEM



rATG Published Data:

Responders to low-dose ATG induce CD4+ T-cell exhaustion in type 1 diabetes - PubMed

JCI insight CLINICAL MEDICINE

Responders to low-dose ATG induce CD4+ T cell exhaustion in type 1 diabetes

Laura M. Jacobsen,[1,2] Kirsten Diggins,[3] Lori Blanchfield,[3] James McNichols,[2] Daniel J. Perry,[2] Jason Brant,[2] Xiaoru Dong,[2,4] Rhonda Bacher,[4] Vivian H. Gersuk,[3] Desmond A. Schatz,[1] Mark A. Atkinson,[1,2] Clayton E. Mathews,[1,2] Michael J. Haller,[1] S. Alice Long,[3] Peter S. Linsley,[3] and Todd M. Brusko[1,2]

[1]Department of Pediatrics, College of Medicine, University of Florida, Gainesville, Florida, USA. [2]Department of Pathology, Immunology, and Laboratory Medicine, University of Florida Diabetes Institute, Gainesville, Florida, USA. [3]Benaroya Research Institute at Virginia Mason, Seattle, Washington, USA. [4]Department of Biostatistics, University of Florida, Gainesville, Florida, USA.

RESULTS. Treatment with low-dose ATG preserved regulatory T cells (Tregs), as measured by stable methylation of *FOXP3* Treg-specific demethylation region (*TSDR*) and increased proportions of $CD4^+FOXP3^+$ Tregs ($P < 0.001$) identified by flow cytometry. While treatment effects were consistent across participants, not all maintained C-peptide. Responders exhibited a transient rise in IL-6, IP-10, and TNF-α ($P < 0.05$ for all) 2 weeks after treatment and a durable $CD4^+$ exhaustion phenotype (increased $PD\text{-}1^+KLRG1^+CD57^+$ on $CD4^+$ T cells [$P = 0.011$] and $PD1^+CD4^+$ Temra MFI [$P < 0.001$] at 12 weeks, following ATG and ATG/G-CSF, respectively). ATG nonresponders displayed higher proportions of senescent T cells (at baseline and after treatment) and increased methylation of *EOMES* (i.e., less expression of this exhaustion marker).

CONCLUSION. Altogether in these exploratory analyses, Th1 inflammation-associated serum and $CD4^+$ exhaustion transcript and cellular phenotyping profiles may be useful for identifying signatures of clinical response to ATG in T1D.

Note: SAB-142: combined 1.5mg/kg and 2.5mg/kg dosed cohorts.

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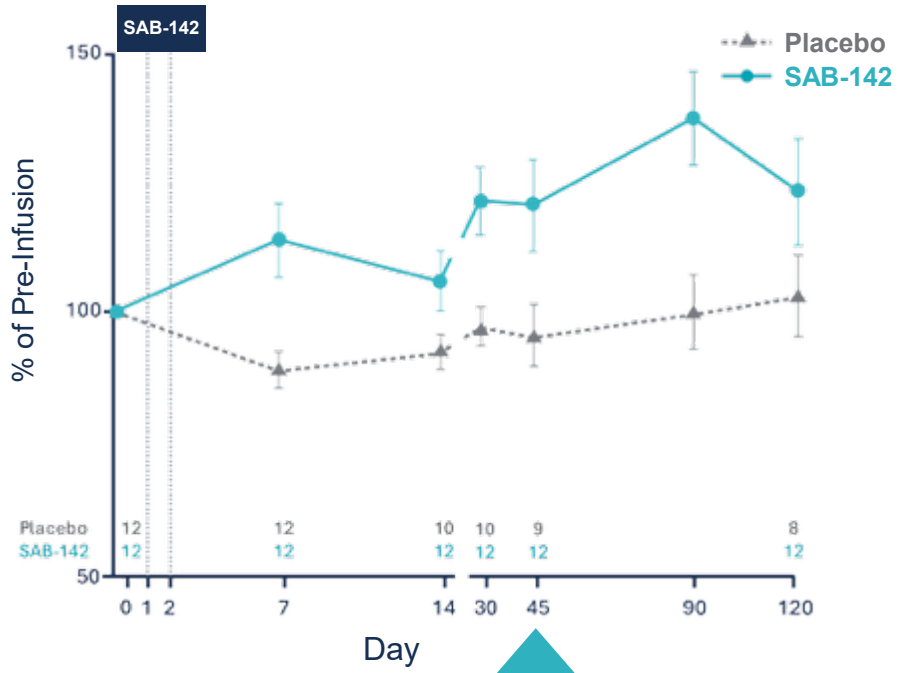
SAB-142 Induces Operational Tolerance as Indicated by Single and Dual-Exhaustion Markers

HV

SAB-142 Phase 1 Top-Line Data:

1 SAB-142 CD4+ T Conv Cell Single Exhaustion Markers

Relative TIGIT⁺ Tconv Cells ± SEM



SAB-142 induced sustained expression of inhibitory receptors (TIGIT+) on CD4+ T conv cells indicative of an exhausted phenotype

2 SAB-142 CD4+ T conv Cell Dual Exhaustion Markers

Tconv Median % Change from Baseline



SAB-142 induced persistent expression of co-inhibitory receptors on CD4+ Tconv cells

Note: SAB-142: combined 1.5mg/kg and 2.5mg/kg dosed cohorts.

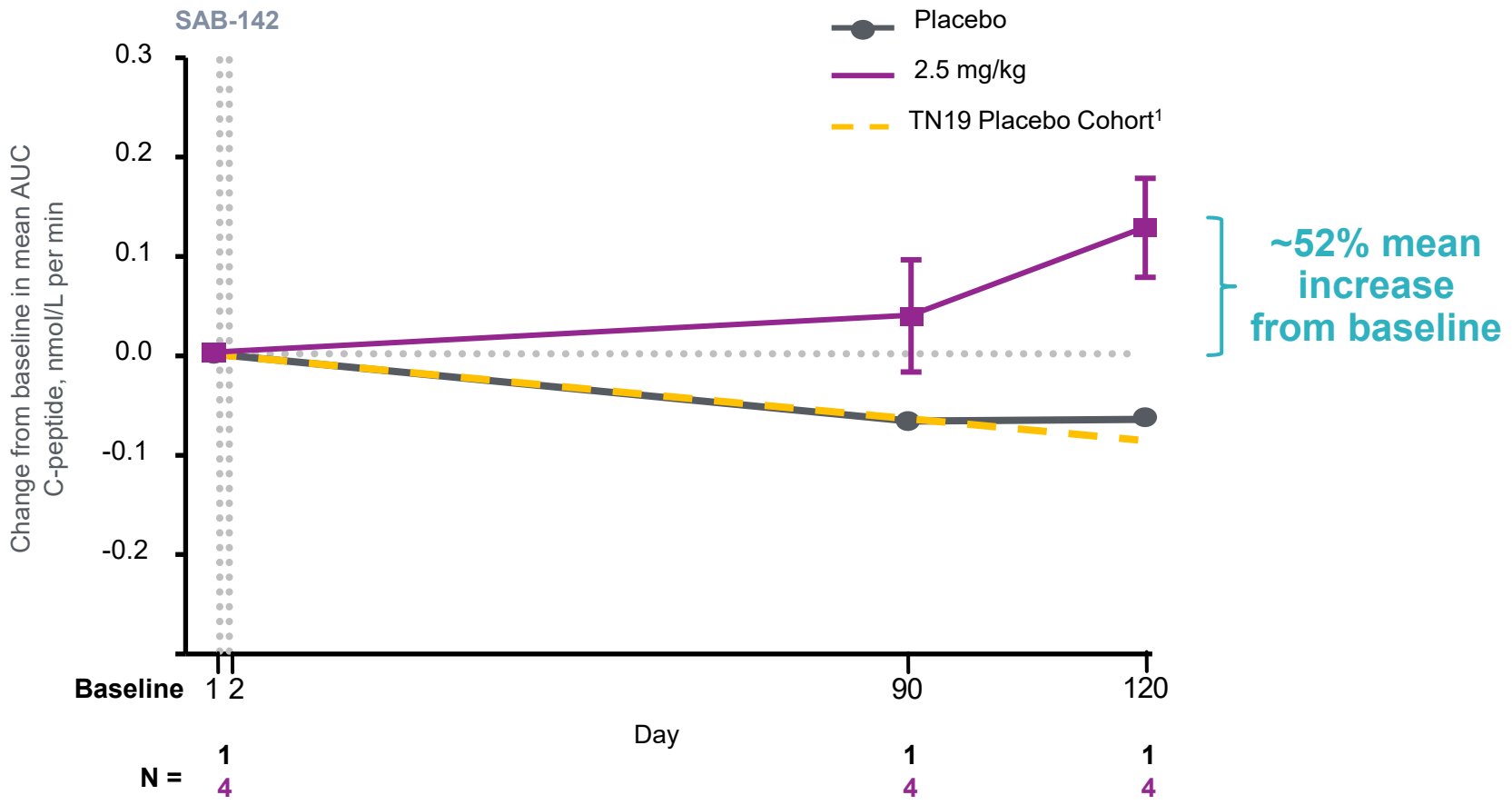
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Adult Established T1D Cohort: C-Peptide Responses

Established T1D

- C-peptide demonstrated preservation over time in the SAB-142 T1D cohort vs. study placebo and TN19 placebo cohort[1]
- Supports a PD effect consistent with preservation of beta cell function in adults with established T1D

MMTT C-Peptide Mean AUC ± SEM



[1]Predicted decline was estimated by first calculating the incremental AUC of TN19 placebo subject C-peptide MMTT data (n=26) for Weeks 48-96 with post-2hr values masked. The linear slope was used to calculate the predicted rate of decline in days: AUC_{BL} – (-0.6108*(Study Day/7)).

Source: Haller et al. Diabetes. 2019 Jun;68(6):1267–1276.

MMTT = Mixed Meal Tolerance Test; AUC = Area Under the Curve; SEM = Standard Error the Mean.

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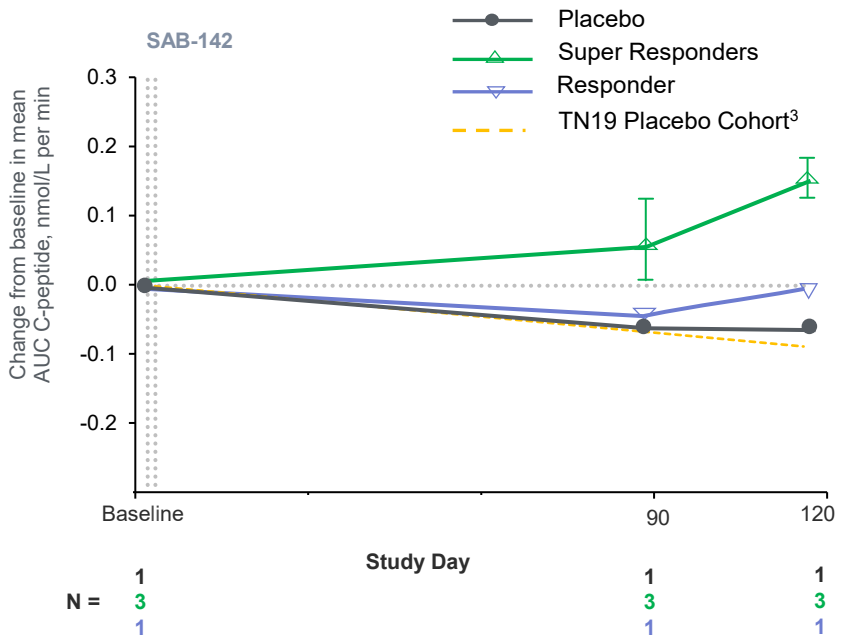
C-Peptide Responses and T Cell Exhaustion

Super Responders vs. Responder

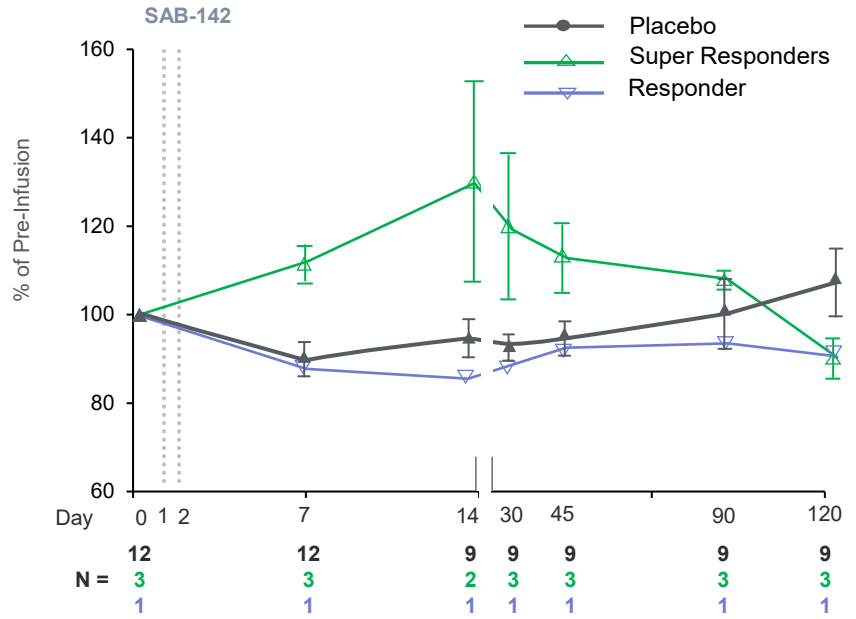
Established T1D & HV

- In SAB-142 T1D cohort, 3 of the 4 participants exhibited mean C-peptide values consistent with super responder status as previously categorized in the study of rATG[1]
- SAB-142 induced CD4+ Tconv cell exhaustion contributing to C-peptide preservation, which is consistent with MOA observed with rATG in previous studies[1,2]

MMTT C-Peptide Mean AUC ± SEM



Relative TIGIT+ Tconv Cells ± SEM



Super responder C-peptide profile concomitant with T cell exhaustion

[1]In that rATG study, super responders were defined as participants with C-peptide at or above the baseline at the end of the study (Month 24). Similarly, in the SAB-142 Phase 1 trial, participants with C-peptide response above the baseline at the end of the study (Day 120) were defined as super responders. Source: Haller et al. Diabetes. 2016 Dec;65(12):3765-3775.

[2]Source:Jacobsen et al. JCI Insight. 2023 Jul;8(16):e161812.

[3]Predicted decline was estimated by first calculating the incremental AUC of TN19 placebo subject C-peptide MMTT data (n=26) for Weeks 48-96 with post-2hr values masked. The linear slope was used to calculate the predicted rate of decline in days: AUC_{BL} – (-0.6108*(Study Day/7)). Source: Haller et al. Diabetes. 2019 Jun;68(6):1267–1276.

MMTT = Mixed Meal Tolerance Test; AUC = Area Under the Curve; SEM = Standard Error of the Mean.

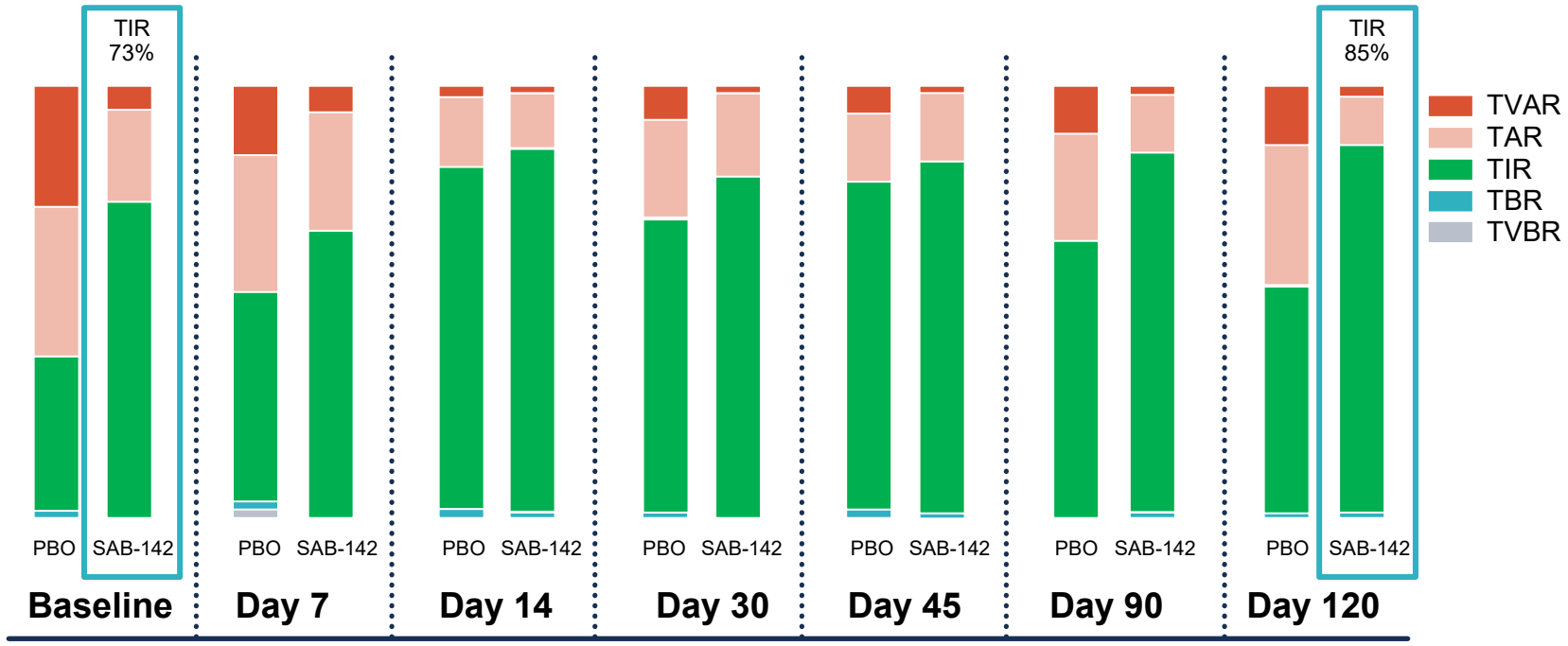
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Adult Established T1D Cohort: Continuous Glucose Monitoring (CGM) Time in Range

Established T1D

- Participants receiving SAB-142 (2.5 mg/kg) demonstrated an increase in mean TIR from 73% at baseline to 85% at Day 120
- SAB-142 effects on glycemic control are aligned with the observed C-peptide response
- Both effects, increase in C-peptide and improvement in TIR relative to baseline, correlate with immune PD activity

CGM Mean Time in Range



Improvement in glycemic control was not associated with increases in exogenous insulin use

Note: TVAR = Time Very Above Range; TAR = Time Above Range; TIR = Time in Range; TBR = Time Below Range; TVBR = Time Very Below Range.

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SAB-142: Potential for Broadest Use with Superior Safety, Efficacy, and Patient Convenience in a Broad Age Range of T1D Patients*

	Tzield*** (teplizumab-mzwv)	Thymoglobulin Anti-thymocyte Globulin (Rabbit)	SAB BIO SAB-142
CD4+ exhaustion signature	✓	✓	✓
Treg preservation	✗	✓	✓
No sustained lymphodepletion (Tconv and/or Tregs)	✗	✗	✓
No anti-drug antibodies (ADAs)	✗	✗	✓
No serum sickness	✗	✗	✓
C-peptide preservation	✓	✓	SAFEGUARD**
HbA1C	✗	✓	SAFEGUARD**
Dosing	**12 DAYS x 2 (Not redosable)**	**1-2 DAYS (Not redosable)**	**2 DAYS x 2 (Annual, redosable)**
Infusing timing	**1 HOUR**	**4-12 HOURS**	**4-6 HOURS**
Redosable (with potential for chronic dosing without ADAs)	✗	✗	✓
Age range	**8-17**	**5-45**	**5-40***

SAB-142 exhibits multi-specific T-cell exhaustion profile and Treg-sparing without sustained lymphodepletion

mimicking immunologic cellular profiles that naturally occur during the initial spontaneous partial remission period ("honeymoon period")

T-cell exhaustion phenotype is universally linked to C-peptide preservation

* Not head-to-head studies.

** Potential benefits on HbA1c and C-peptide are informed by prior rATG outcomes, though this translatability to SAB-142 will be confirmed with the Phase 2b SAFEGUARD study results. Registrational Phase 2b SAFEGUARD trial includes T1D patients ages 5-40.

*** Marketed by Sanofi through its $2.9bn acquisition of Provention Bio

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SAFEGUARD: Multicenter, Global Phase 2b for SAB-142 in New Onset Stage 3 Type 1 Diabetes Patients

SAFEGUARD
Phase 2b Study

SAFety and **E**fficacy of human anti-thymocyte immuno**G**lob**U**lin SAB-142 **AR**resting progression of Type 1 **D**iabetes

Trial design:

- 159 pediatric, adolescent, and adult patients (5-40 yr)
  - **Part A:** 12 patients – dose-ranging study for 12 months
  - **Part B:** 147 patients – randomized, double-blind, placebo-controlled, dose-ranging study for 12 months
- **Part C:** All patients, including placebo, eligible for 12-month long-term extension study upon completion

Inclusion criteria:

- New onset Stage 3 T1D: within 100 days of diagnosis
- Baseline C-peptide: ≥ 0.2 nmol/L

Dosing regimen:

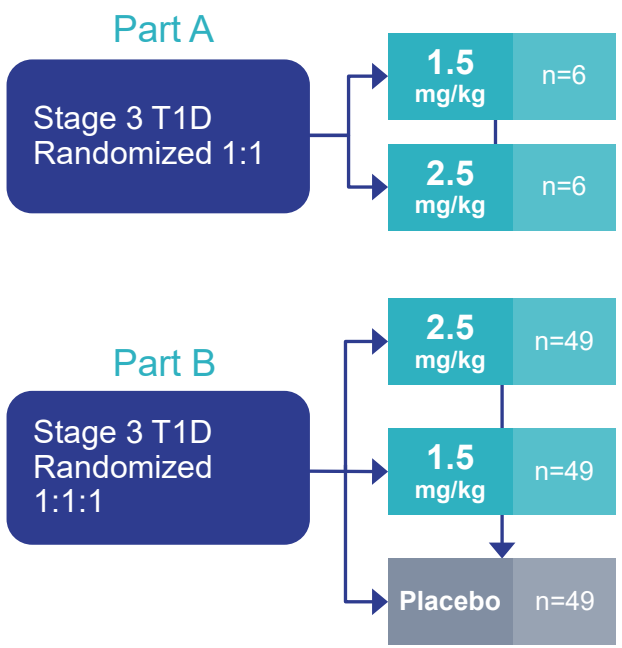
- Intravenous (IV)
- 0.5 mg/kg on Day 1 and remainder of dose Day 2
- 1st dose at study start and 2nd dose at month 6
- Induction dose levels: 1.5 and 2.5mg/kg; Maintenance dose: 1.5mg/kg

Global study initiated with **topline results expected 2H 2027**



United States (FDA) NCT07187531
Europe (EMA)
United Kingdom (MHRA)
Australia (TGA)
New Zealand (MEDSAFE)

Phase 2b Study Design



Primary Endpoint:

Stimulated C-peptide
following 2-hr MMTT at 12 months
(detect at least 40% difference with 80% power)

Secondary Endpoint:

Leading Clinical Endpoint:
HbA1C

Other secondary Endpoints:

- Time in Tight Range, Time in Range, Time Above and Below Range
- Hypoglycemic episodes
- Safety
- Insulin use

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PRISE-hATG: Multicenter, Global Phase 3 for SAB-142 in Stage 3 Type 1 Diabetes Patients Up to 2 Years from Diagnosis

PRISE-hATG
Investigator-Led
Phase 3 Study

Personalized **R**esponse and **I**mmunologic **S**urveillance of **E**ndogenous C-Peptide Preservation in New, Recent, and Extended Onset Type 1 Diabetes Treated with Human Anti-Thymocyte Globulin (**hATG**)

Trial design:

- Randomized, double-blind, placebo-controlled investigator-led study for 12 months
- 108 pediatric, adolescent, and adult patients (5-40 yr)
  - **Cohort 1 from SAFEGUARD**: within 100 days of diagnosis
  - **Cohort 2**: from 100 days to 1 year/365 days of diagnosis
  - **Cohort 3**: from 1 year/365 days to 2 years/730 days of diagnosis

Inclusion criteria:

- All I/E criteria are identical to SAFEGUARD, including baseline C-peptide: ≥ 0.2 nmol/L

Dosing regimen:

- Intravenous (IV)
- 1st dose at study start and 2nd dose at month 6
- Induction dose: 2.5mg/kg; Maintenance dose: 1.5mg/kg

Study Supported By:

Breakthrough T1D™
Formerly JDRF



United States
(FDA) NCT07670650



Europe
(EMA)



United Kingdom
(MHRA)

Phase 3 Study Design

Cohort 1 (SAFEGUARD)

Stage 3 T1D (<100 days) Randomized 2:1

- 2.5 mg/kg n=24
- Placebo n=12

Cohort 2 (PRISE-hATG)

Stage 3 T1D (100 days – 1 yr) Randomized 2:1

- 2.5 mg/kg n=24
- Placebo n=12

Cohort 3 (PRISE-hATG)

Stage 3 T1D (1 – 2 years) Randomized 2:1

- 2.5 mg/kg n=24
- Placebo n=12

Primary Endpoint:

Stimulated C-peptide
following 2-hr MMTT at 12 months
(detect at least 40% difference with 80% power)

Secondary Endpoint:

Leading Clinical Endpoint:
HbA1C

Other secondary Endpoints:

- Time in Tight Range, Time in Range, Time Above and Below Range
- Hypoglycemic episodes
- Safety

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Strong Balance Sheet with Committed Strategic Partners

Current cash position fully funds SAFEGUARD, PRISE and pre-commercial activities for SAB-142

T1D clinical development partner:

SAB-142 clinical development plan designed in partnership with Breakthrough T1D (formerly JDRF)

Financial Snapshot:

Cash*
$205M

Cash Runway*
Through 2028

Key Clinical and Strategic Partners:

AUSTRALASIAN TYPE 1 DIABETES IMMUNOTHERAPY COLLABORATIVE

Breakthrough T1D™
Formerly JDRF

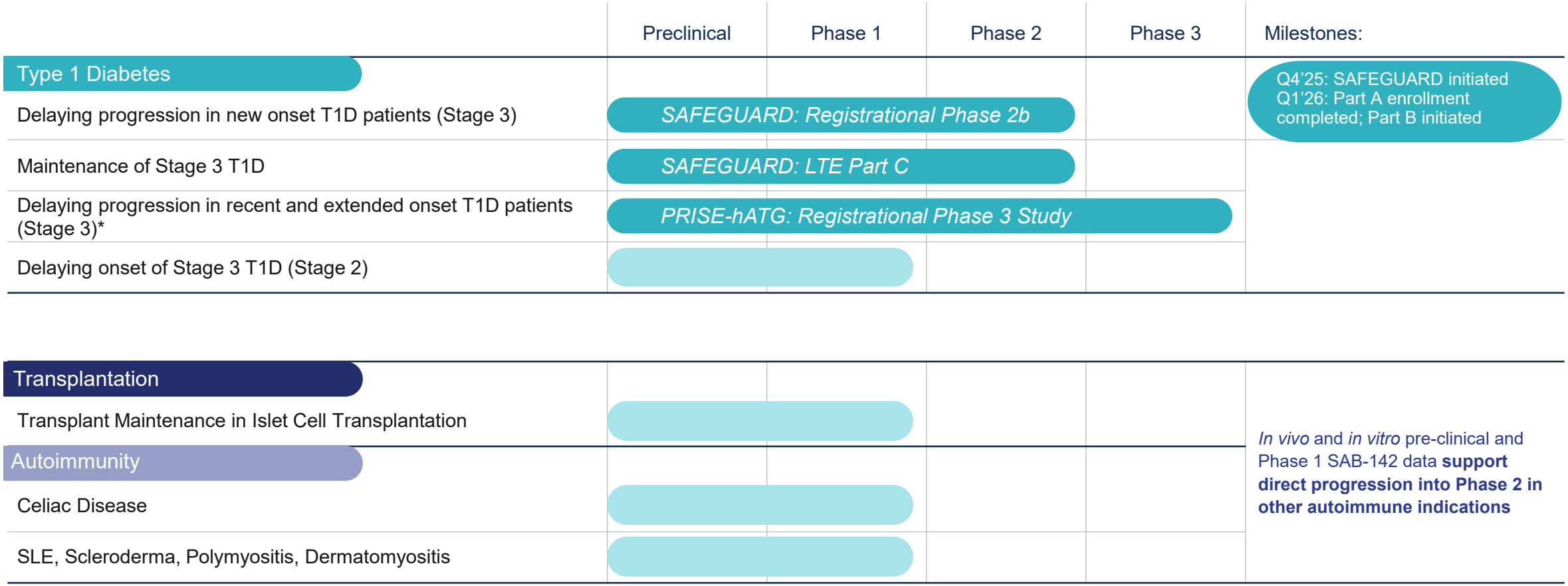
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*Note: Cash, cash equivalents, and available for sale securities as of September 30, 2026.

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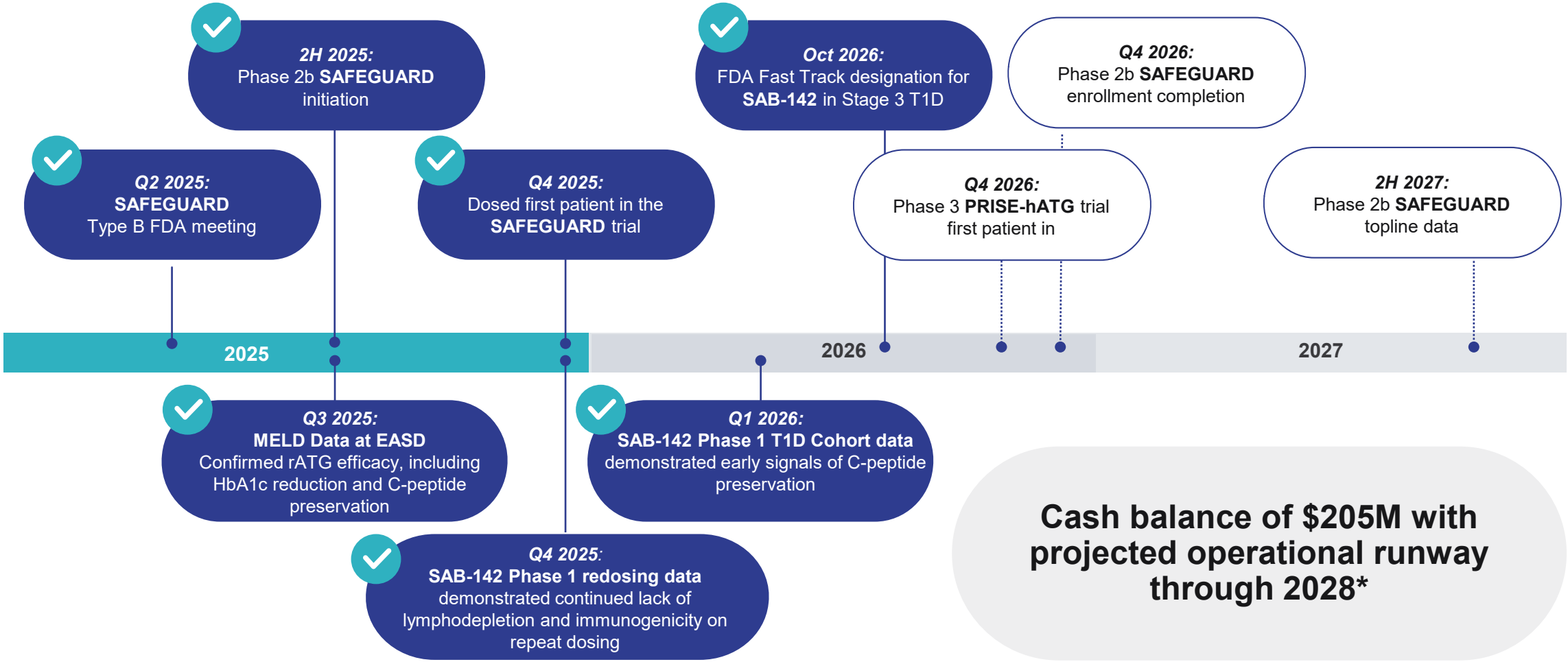
Focused on T1D with Potential to Advance in Other Autoimmune Diseases



*Investigator-led study

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Significant Catalysts Expected in 2026 and 2027



Cash balance of $205M with projected operational runway through 2028*

*Note: Cash, cash equivalents, and available for sale securities as of September 30, 2026.

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SAB BIO Investment Highlights
Potential for Significant Value Creation and Patient Impact

Leading Clinical-Stage Company Focused on Autoimmune Type 1 Diabetes

REDEFINING T1D TREATMENT LANDSCAPE

SAB-142, our lead product candidate, is a potentially best-in-class, disease-modifying therapy with a de-risked mechanism of action

Currently conducting a registrational Phase 2b SAFEGUARD study for newly diagnosed Stage 3 autoimmune type 1 diabetes (T1D)

LARGE MARKET OPPORTUNITY WITH ESTABLISHED REGULATORY PATHWAY

T1D is a multi-billion market opportunity with a global prevalence of ~9.5M

SAB-142 is initially focused on Stage 3 T1D (U.S. incidence of 64K) where the treatment landscape is expanding towards disease-modifying therapies along an informed regulatory pathway established by Tzield

UNIQUE MULTI-SPECIFIC ANTIBODY PLATFORM WITH HIGH BARRIERS TO ENTRY

Proprietary, wholly-owned, discovered in-house platform capable of generating a diverse repertoire of multi-specific, targeted, fully human immunoglobulins (hIgG)

This unique platform leverages a multi-level IP strategy with no biosimilar pathway creating high barriers to entry

WELL CAPITALIZED WITH TOP-TIER INVESTORS

Backed by a syndicate of life science specialist investors

Current cash position is expected to fully fund SAB-142's SAFEGUARD study with data expected 2H 2027

EXPERIENCED LEADERSHIP TEAM

Led by management team and board of directors with deep, proven biopharma experience spanning global clinical development, regulatory strategy, and commercialization

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THANK YOU

Targeting T1D

Modifying Disease

Moving Beyond Insulin



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Appendix

Rabbit ATG: De-Risked Mechanism of Action

MELD-ATG: Minimal Effective Low Dose of rATG* Preserved C-peptide in New Onset T1D 1 Year Post Treatment

MELD-ATG replicated results from Haller's TN19 study with ≤2.5 mg/kg with statistically significant C-peptide preservation and glycemic control

*Mathieu C, Wych J, Hendriks AEJ, Van Ryckeghem L, Tree T, Chmura P, Möller C, Casteels K, Danne T, Reschke F, Šmigoc Schweiger D, Battelino T, Johannesen J, Rami-Merhar B, Pieber T, De Block C, Evans M, Hilbrands R, Bosi E, Willemsen RH, Basu S, Pulkkinen MA, Knip M, Cnop M, Nitsche A, Schulte AM, Niemöller E, Peakman M, Wilhelm-Benartzi C, Gillespie D, Overbergh L, Mander AP, Marcovecchio ML; INNODIA. Minimum effective low dose of antithymocyte globulin in people aged 5-25 years with recent-onset stage 3 type 1 diabetes (MELD-ATG): a phase 2, multicentre, double-blind, randomised, placebo-controlled, adaptive dose-ranging trial. Lancet. 2025 Sep 18:S0140-6736(25)01674-5. doi: 10.1016/S0140-6736(25)01674-5. Epub ahead of print. PMID: 40976248.



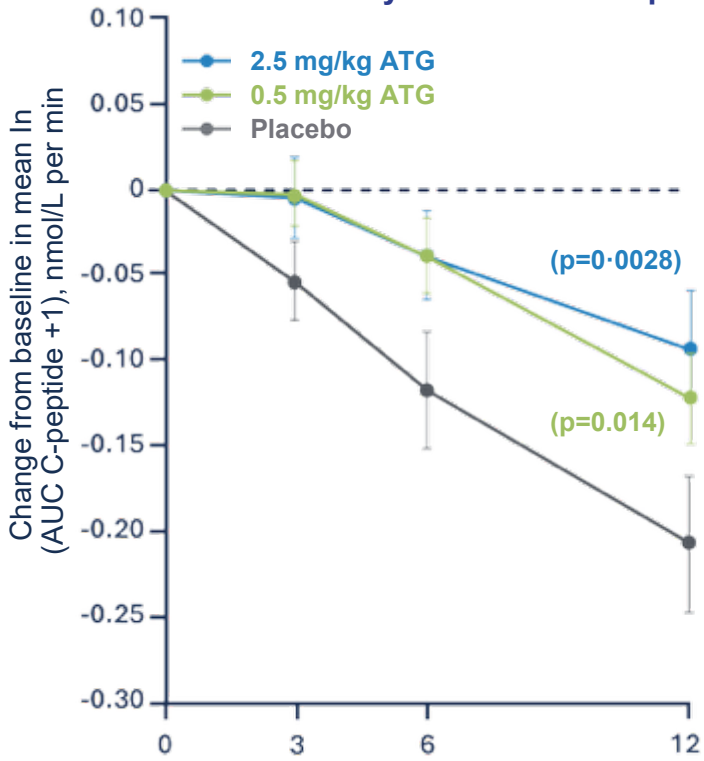
Thymoglobulin®
Anti-thymocyte Globulin (Rabbit)

MELD-ATG

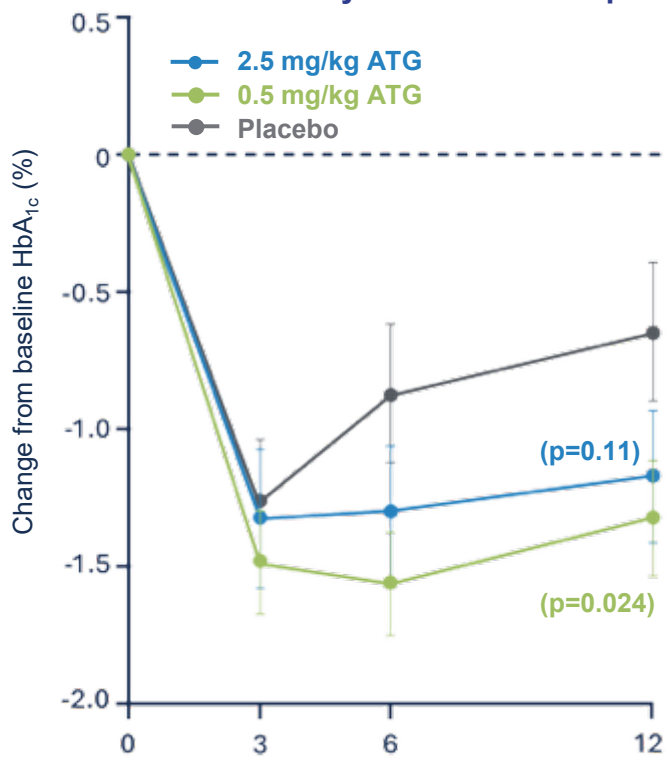
ATG is the only mechanism of action that has consistently reproduced clinical data demonstrating preservation of C-peptide and improvements in glycemic control

(Mathieu et al., Lancet. 2025 Sep 18:S0140-6736(25)01674-5)

Decline in C-peptide AUC Mean Over Time by Treatment Group



HbA1c Adjusted Mean Difference by Treatment Group



Time since randomization (months)

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Phase 1 Adult Established T1D Cohort: Baseline Characteristics

All study participants met SAFEGUARD inclusion criteria related to residual beta cell function and at least one T1D autoantibody at baseline

Established T1D

	SAB-142 2.5 mg/kg T1D (n=4)	Placebo T1D (n=2)*
Age range (mean)	19-40 (28.75)	19-34 (26.5)
Sex	2 Female & 2 Male	2 Female
C-peptide AUC for 2-hr MMTT (nmol/L) / min		
n	4	1*
Mean (SD)	0.302 (0.032)	0.432
Fasting Glucose (mmol/L)		
n	4	2
Mean (SD)	6.53 (1.773)	5.95 (1.344)
Time in months from T1D diagnosis to randomization		
n	4	2
Mean (SD)	40.2 (11.39)	28 (9.9)
Average Total Insulin per day by Weight (IU/day/kg)		
n	4	2
Mean (SD)	0.406 (0.287)	0.323 (0.225)
GAD Autoantibodies Positive N (%)	4 (100%)	0 (0%)
IA-2 Autoantibodies Positive N (%)	2 (50%)	2 (100%)
ZNT8 Autoantibodies Positive N (%)	3 (75%)	0 (0%)

*One placebo subject discontinued after Day 45
Note: SD = Standard deviation

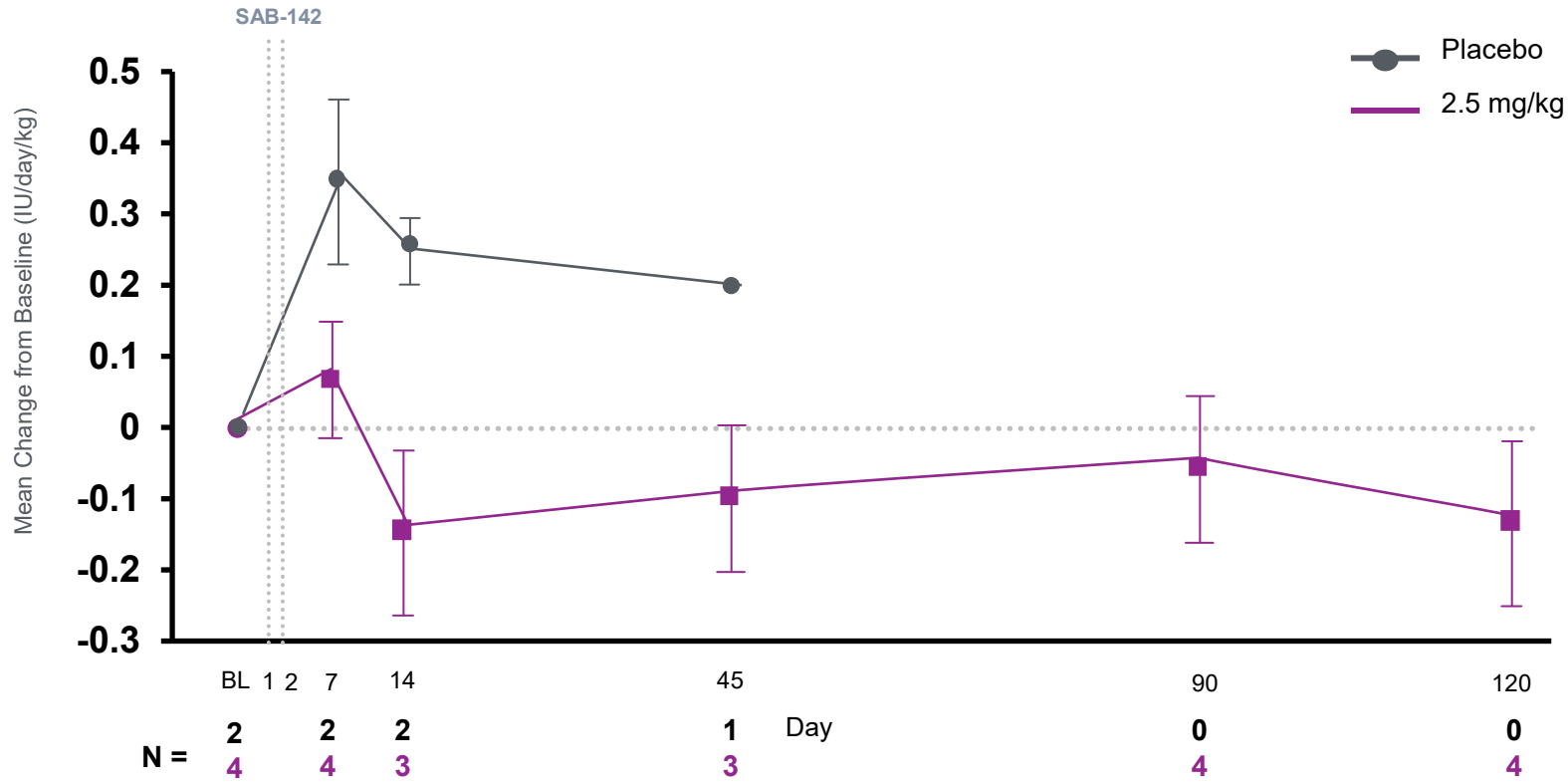
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Adult Established T1D Cohort: Total Exogenous Insulin Use

Established T1D

- Improvement in glycemic control was not associated with increases in exogenous insulin use
- Phase 1 study participants are beyond their T1D “honeymoon” period

Mean Total Insulin Use Per Day ± SEM



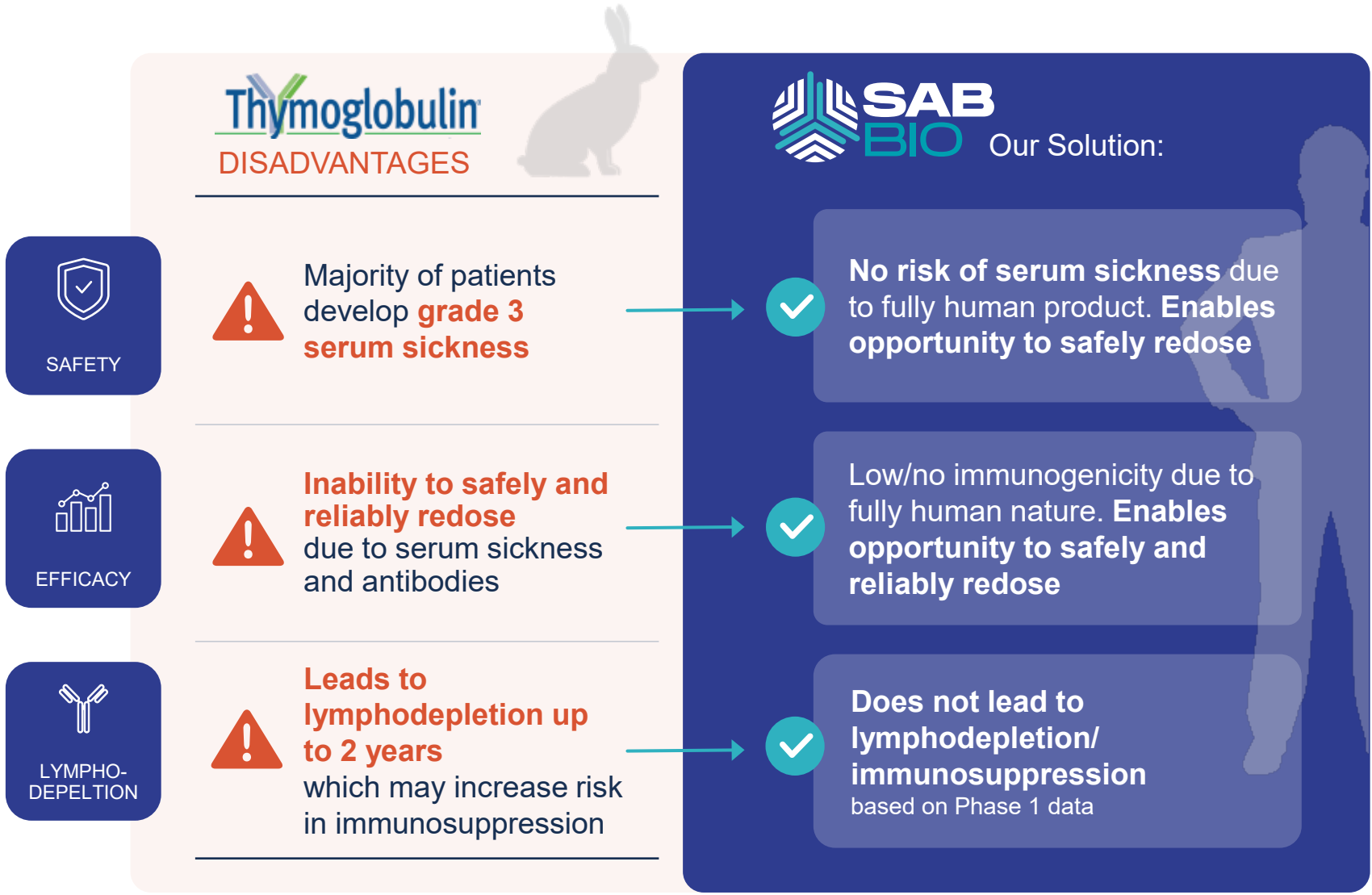
Note: IU = Insulin Use; SEM = Standard Error of the Mean

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SAB-142 Offers Distinct Advantages Over rATG

SAB-142 / hATG Mechanism of Action:

- **SAB-142 is a human alternative** to rATG (Thymoglobulin)
- SAB-142's mechanism of action is comparable to the PD profile of rATG shown to correlate with C-peptide preservation
- SAB-142, like rATG, modulates immune function resulting in sustained exhaustion in T cells likely involved in destroying pancreatic beta cells

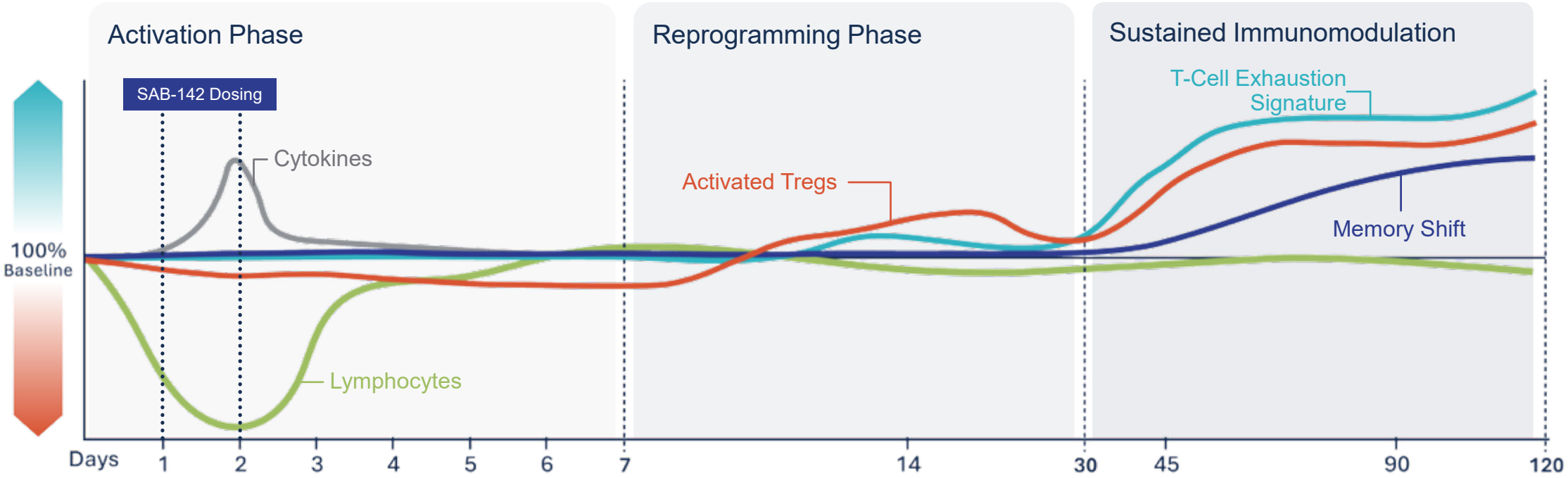


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SAB-142: The Next Generation of Beta Cell Guardians

Sustained Immunomodulation without Lymphodepletion

Pharmacodynamic Profile of SAB-142:



Mechanism of Action of SAB-142:

- Transient Cytokine Increase
- Transient Lymphocyte Margination
- Treg preservation & activation
- Initiation of memory phenotype shift
- Sustained T-cell exhaustion signature
- Supporting restoration of immune tolerance

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