



THERAPEUTICS

**Improving the Lives of Millions of
People Living with Type 1 Diabetes**

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**Pioneering Oral Drugs for
Challenging Targets to Help
Treat Diverse Chronic Diseases**



Advancing late-stage cadisegliatin
program for type 1 diabetes



Partnerships for potential additional
upside and shareholder value



Experienced Leadership with Decades of Life Sciences Expertise



Paul Sekhri
Chair, President & CEO

Steven Tuch
Chief Financial Officer

Thomas Strack, MD
Chief Medical Officer

Carmen Valcarce, PhD
Chief Scientific Officer

Rich Nelson
Chief Business Officer

Martin Lafontaine
Chief Commercial Officer

Dan Kirby
SVP Strategic Ops



Cadiseagliatin: Late-Stage Clinical Development

Product	Indication	Pre-clinical	Phase I	Phase II	Phase III*	Next Key Milestone	Partners + Regions
Cadiseagliatin (TTP399) GK Activator	Type 1 Diabetes					Topline Ph 3 data	

*Currently on FDA clinical hold following discovery of a chromatographic signal in a human ADME study

Partnership with G42 Healthcare to advance cadiseagliatin as an adjunct therapy to insulin for people living with Type 2 diabetes



Cadiseqliatin: Potential to be First Oral Adjunct Therapy for T1D

Novel oral liver selective glucokinase activator in development to reduce hypoglycemia and improve glycemic control vs. insulin alone

Targets High Unmet Needs

~80% of 1.6M Americans living with T1D fail to achieve target blood glucose control with current SOC¹

Hypoglycemia is often the major barrier to glycemic control²

Derisked by Ph1 and Ph2 Data

Dosed in 500+ subjects to date³

Positive impact on hypoglycemia and HbA1c⁴

In Late-Stage Development

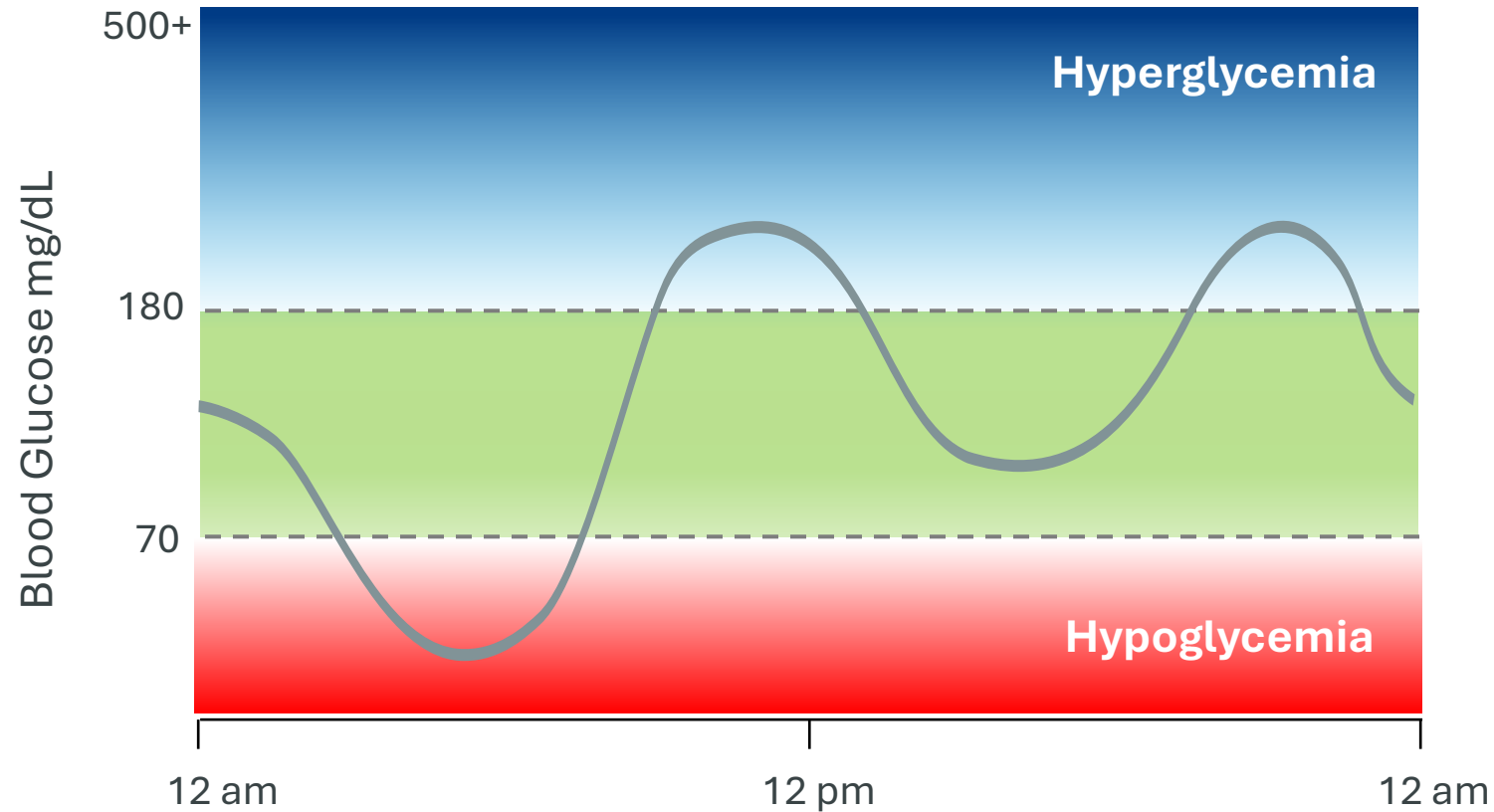
Phase 3 trial* initiated Q2 2024

FDA Breakthrough Designation

**Working to resolve an FDA clinical hold on cadiseqliatin program following discovery of a chromatographic signal in human ADME study*

The Challenge: Lowering Blood Glucose to Target While Preventing Hypoglycemia

~80% fail to achieve ADA HbA1c target of <7.0%¹



Insulin

The pharmacological standard of care with a narrow therapeutic window

Hypoglycemia

Often the major limiting factor in the glycemic management of patients with T1D²

High Level Business Opportunity with Expansion Potential into Type 2 Diabetes

Large Established Markets



9.4 M

Patients globally with T1D,
growing 3.5% annually¹



\$3 - 5 B

Annual gross sales
opportunity globally with
T1D²

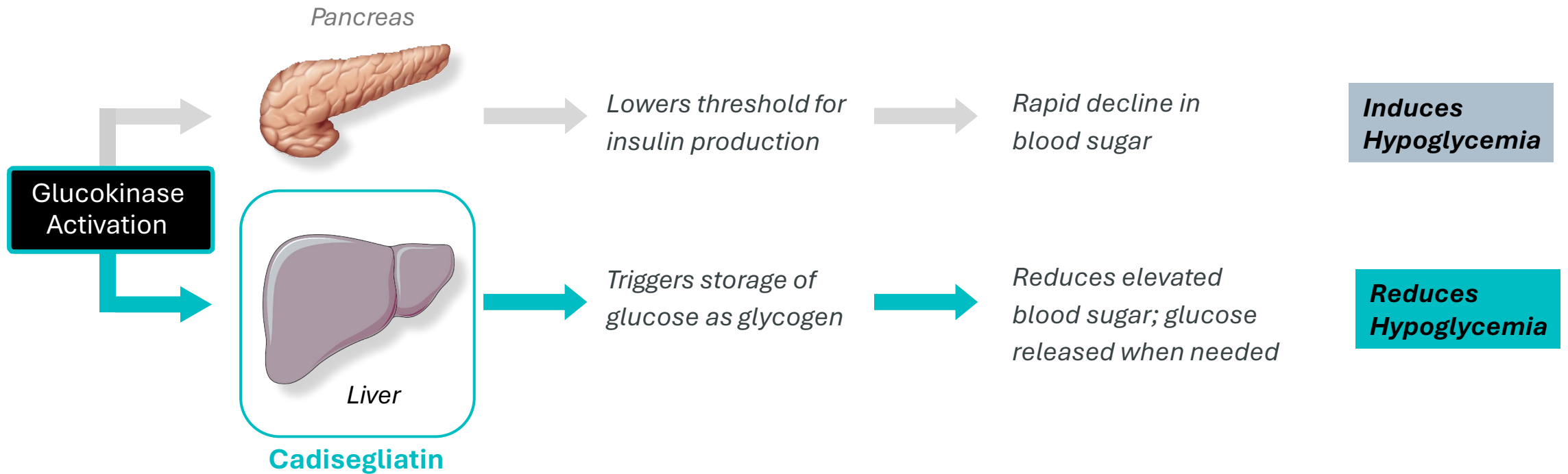


Upside

T2D global
population

Cadisegliatin: Liver-Selective Glucokinase Activator

Glucokinase regulates glucose metabolism in liver and pancreatic β -cells



Cadiseigliatin is in Development to Overcome Limitations of Past Approaches

Historical Limitations

Increased hypoglycemia¹

Elevated lipids¹

Loss of efficacy over time¹

Liver toxicity¹

Cadiseigliatin's Goals

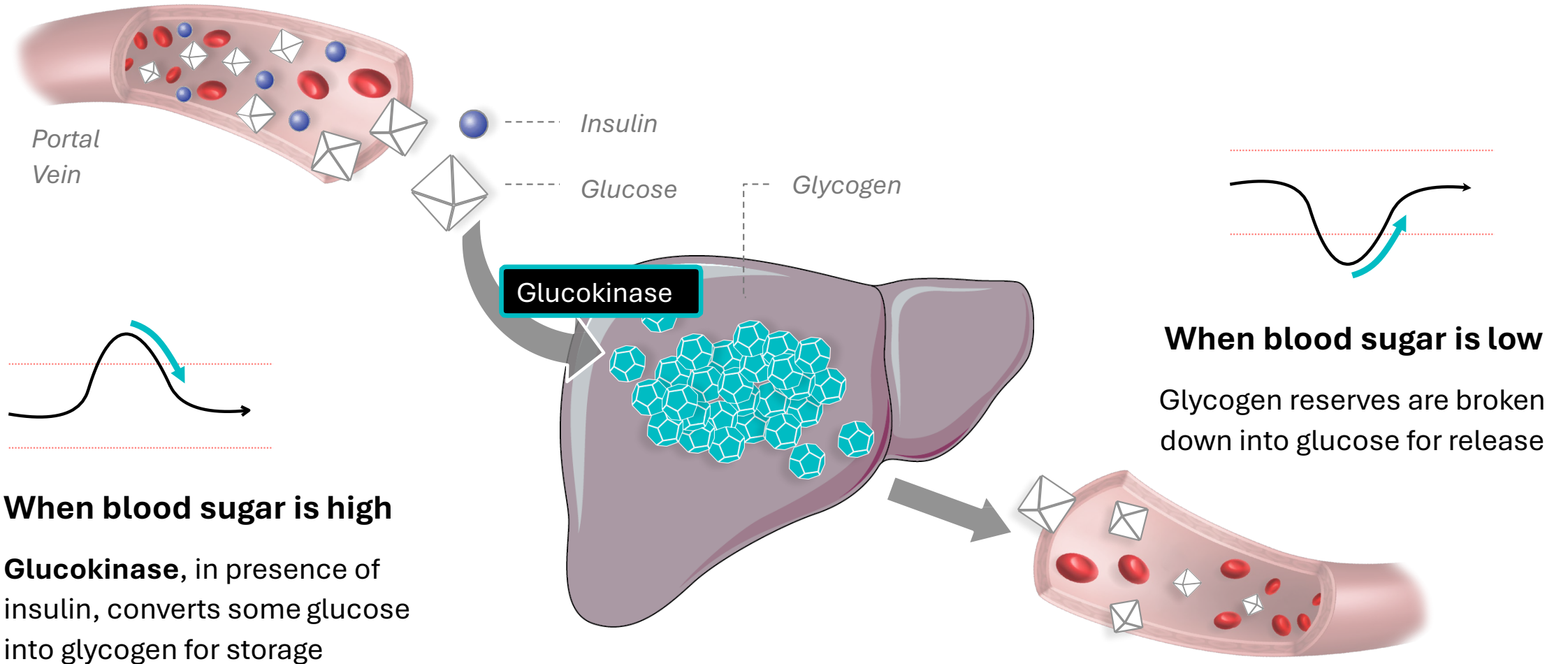
→ Reduction in hypoglycemia²

→ No impact on lipids likely due to preservation of GK-GKRP interaction²

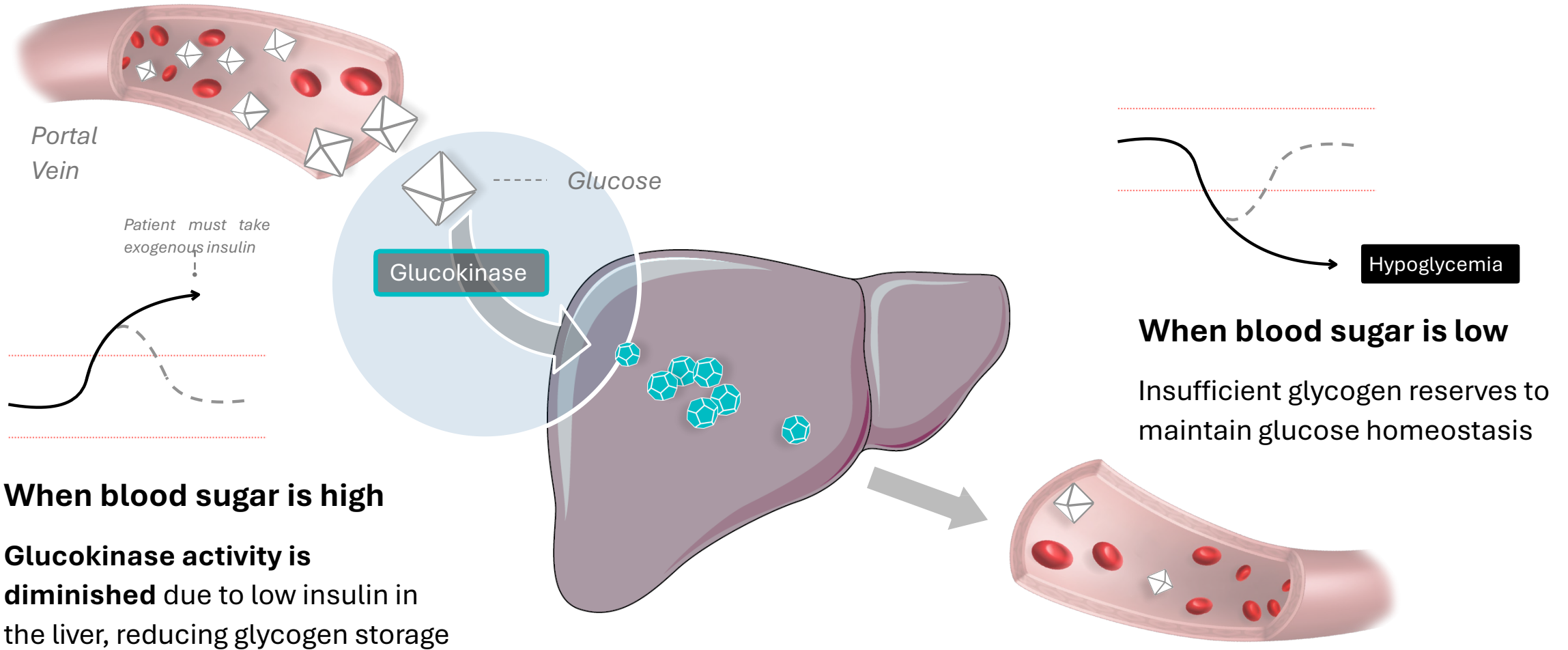
→ Maintain efficacy²

→ Absence of liver toxicity²

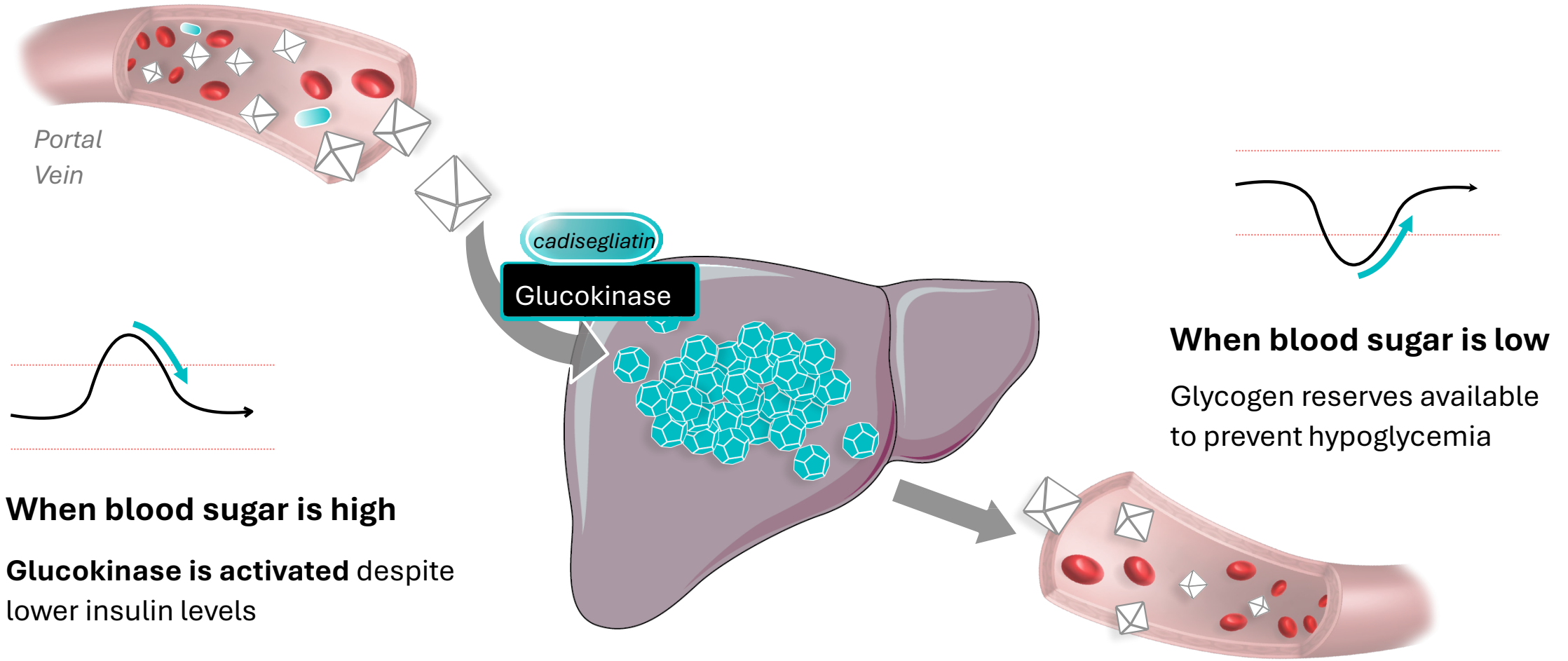
In Non-Diabetic People, the Liver Acts as a Reservoir for Glucose with Insulin and Glucokinase being Key Gatekeepers



With Type 1 Diabetes and Only Low Levels of Insulin Reaching the Liver, Glucokinase Activity Is Impaired



Cadisegliatin, as a Glucokinase Activator, Reactivates Innate Glucose-Regulating Capacity of the Liver Even in the Absence of Increased Insulin Levels



Proof-of-Concept Data for Cadisegliatin in T1D and T2D

SimpliciT1 Phase 2 Study in T1D¹

50% fewer symptomatic hypoglycemic episodes ($p < 0.04$) and no ketoacidosis

Reduction of HbA1c by 0.36 vs. insulin alone ($p < 0.001$)

40% of cadisegliatin treated patients had reductions of total daily insulin dose **and** HbA1c (by 0.41%) vs. insulin alone

N = 100; US Study

Insulin Withdrawal Study in T1D¹

No increased risk of ketoacidosis vs. insulin alone

Despite short treatment for only 7-10 days:

- Improved fasting plasma glucose levels
- Fewer hypoglycemic events

N = 23; US Study

AGATA Phase 2 Study in T2D²

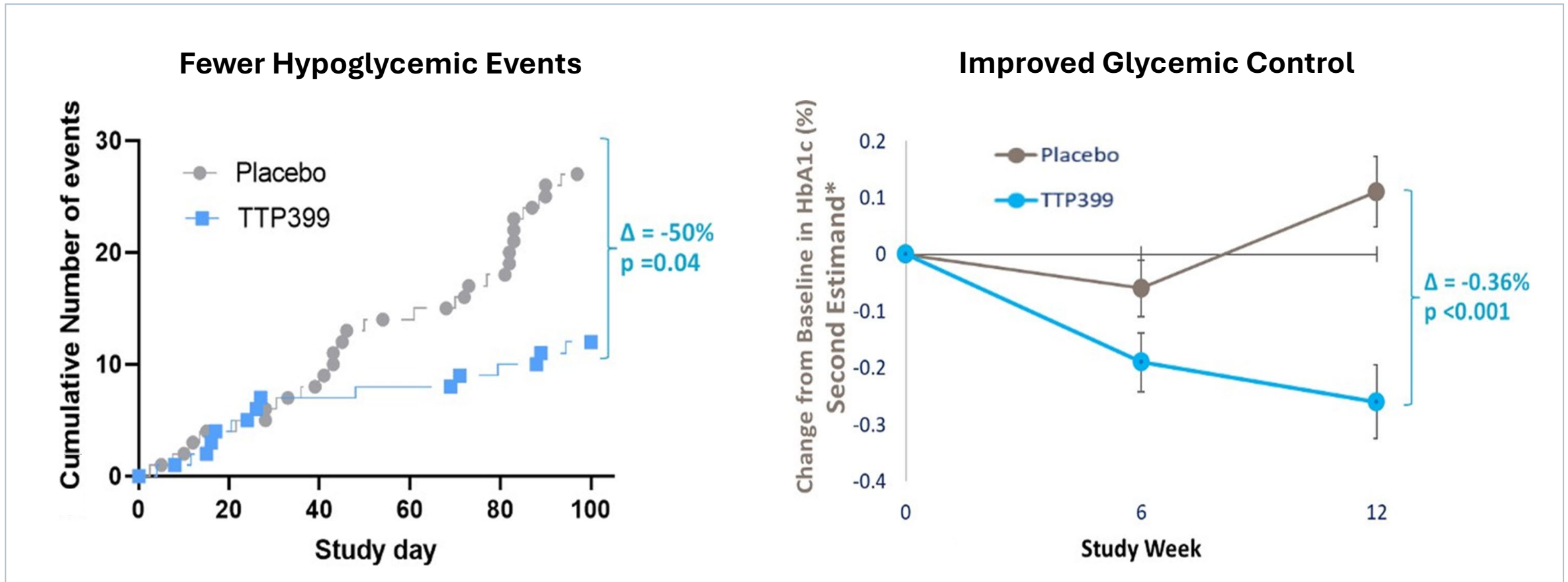
Reduction of HbA1c by 0.9% vs. metformin ($p < 0.01$)

No difference to metformin with regards to hypoglycemia or hyperlipidemia over 6 months

N = 190; US Study

Cadiseqliatin Significantly Reduced Hypoglycemia and HbA1c v. Insulin Alone¹

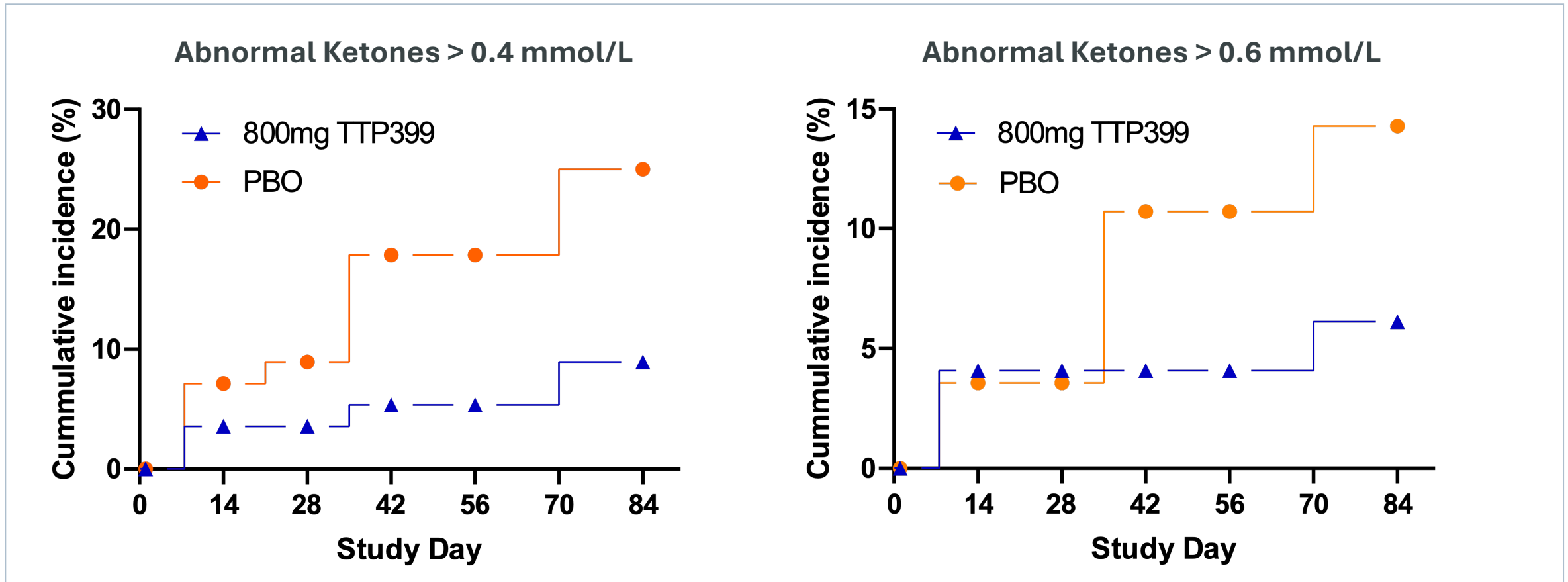
SimpliciT1 Phase 2 Trial in patients with T1D



Randomized, Double-Blind, Placebo Controlled 2-Part Study of ~100 patients. A total of 49 patients in the treatment groups received 800mg daily of *cadiseqliatin*.

No Observed Increased Risk of Ketoacidosis with Cadisegliatin vs. Insulin Alone¹

SimpliciT1 Phase 2 Trial in patients with T1D



Cadiseigliatin was Well-Tolerated Across People Living with T1D or T2D^{1,2}

	Type 1 Diabetes – Phase 2, 3-month trial		Type 2 Diabetes – Phase 2, 6-month trial			
	Cadiseigliatin 800 mg (n=56)	Placebo (n=49)	Cadiseigliatin 400 mg (n=50)	Cadiseigliatin 800 mg (n=42)	Placebo (n=48)	Sitagliptin (n=49)
Treatment Emergent and Serious Adverse Events^{1,2}						
Subjects with ≥1 TEAE (%)	36 (64)	32 (65)	26 (52)	21 (50)	29 (60)	30 (61)
Subjects with ≥1 related TEAE (%)	3	5	3 (6)	8 (19)	4 (8)	8 (16)
SAEs	1	1	0	0	0	0
Subjects with ALT, AST, ALP > 1.5 UNL and/or bilirubin >2 ULN (%)	2 (4)	1 (2)	1(2)	0	0	0
Subjects with AST or ALT >3 ULN and bilirubin >1.5 ULN	0	0	0	0	0	0
DKA Events	0	0	N/A			
Subjects with ≥ 1 BOHB > 1mmol/l	1 (2)	3 (5)				

1: Vella A, et al. Targeting hepatic glucokinase to treat diabetes with TTP399, a hepatoselective glucokinase activator. Science translational medicine. 2019 Jan 16;11(475):eaau3441. 2: Klein KR et al. The SimpliciT1 study: a randomized, double-blind, placebo-controlled phase 1b/2 adaptive study of TTP399, a hepatoselective glucokinase activator, for adjunctive treatment of type 1 diabetes. Diabetes Care. 2021 Apr 1;44(4):960-8

Cadiseqliatin Did Not Adversely Impact Lipids, Cholesterol or Liver Enzymes¹

Phase 2 trial, 6-months

Fasting Lipid Changes from Baseline in Type 2 Diabetes Patients¹

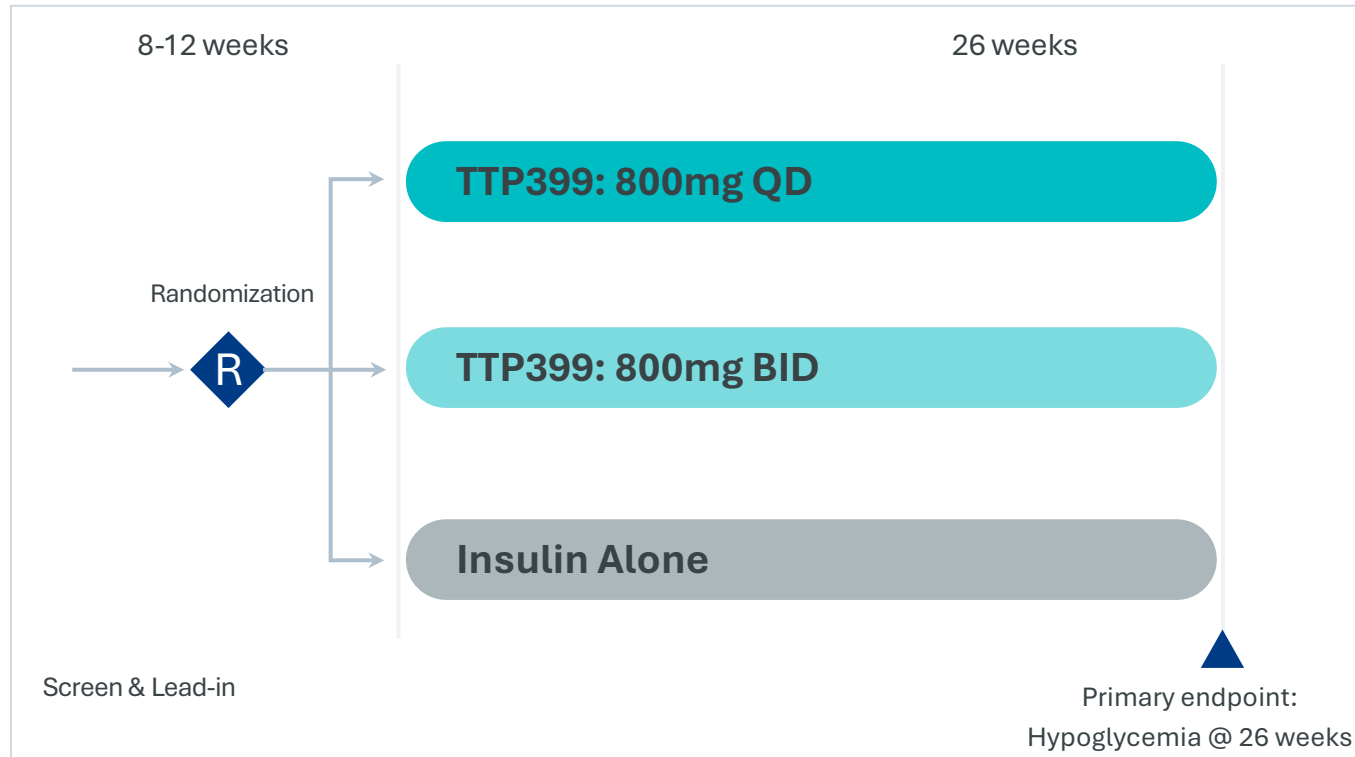
	Cadiseqliatin 400 mg (n=50)	Cadiseqliatin 800 mg (n=42)	Sitagliptin (n=49)
Triglycerides (mg/dl)	+1.5	-13.3	-27.4
LDL-Cholesterol (mg/dl)	+7.9	+2.9	-2.0
HDL-Cholesterol (mg/dl)	-0.4	+3.2*	+0.9

*P < 0.05

Cadiseigliatin CATT1 Study – Informed by FDA Advice and Published Guidance for Endpoint Selection, Exposure and Population Criteria

Working to resolve an FDA clinical hold following discovery of a chromatographic signal in human ADME study

CATT1 Study
Target Enrollment:
150 subjects at
~20 US sites



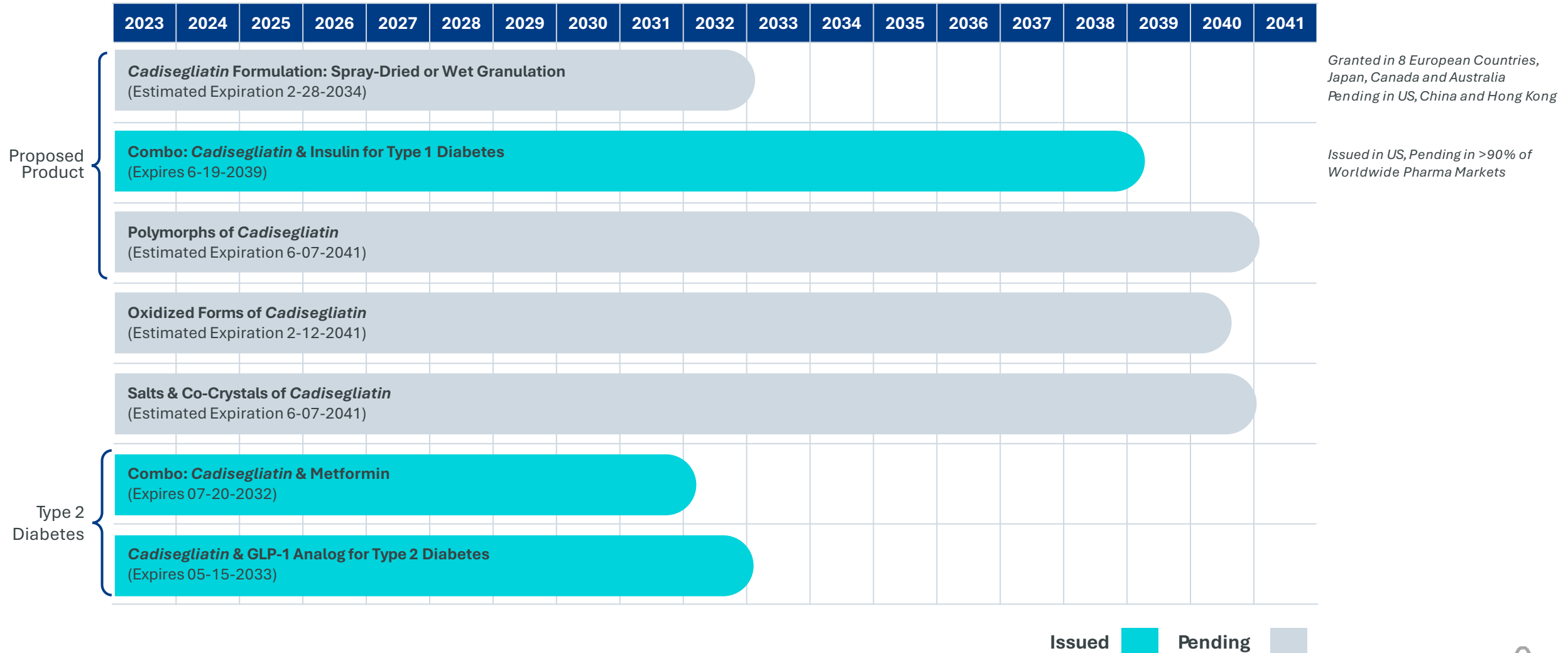
Primary endpoint
Incidence of Level 2 or
Level 3 hypoglycemic
events

Key secondary endpoint
Change in Hemoglobin
A1C

CATT1 (TTP399-302) is the first Phase 3 trial to assess the efficacy of cadiseigliatin in patients utilizing continuous glucose monitoring (CGM)

Strong IP Protection for Cadisegliatin in T1D and T2D through 2041

Exclusivity Period*





Small Molecule Portfolio



Broader Portfolio Continues to Offer Additional Upside and Shareholder Value




Partnered Programs With Global Rights

Product	Indication	Pre-clinical	Phase I	Phase II	Phase III	Partners + Rights
PDE4 Inhibitor HPP737	Psoriasis					 恒翼生物医药 China
	COPD					
	Atopic Dermatitis					
RAGE Antagonist Azeliagon	Glioblastoma					 Global
	Pancreatic Cancer					
	Breast Cancer					
	Pneumonia					

Additional Programs With Global Rights

Oral GLP-1R Agonist TTP273	Type 2 Diabetes					
Nrf2/Bach1 Modulator HPP971 /HPP3033	Oxidative Inflammatory Indications					

Partnerships Provide Potential Independent Revenue Streams

Cadiseagliatin (TTP399) <i>GK Activator</i>	HPP737 <i>PDE4 Inhibitor</i>	Azeliragon <i>RAGE Antagonist</i>
<p>Type 2 Diabetes Phase 2 initiation 2025 Middle East</p>	<p>Psoriasis*, COPD, Atopic Dermatitis Ongoing Phase 2 and Phase 3* trials China</p>	<p>Pneumonia**, Glioblastoma, Breast Cancer, Pancreatic Cancer Ongoing Phase 2 and Phase 3** trials US</p>
		
<p>Certain countries in the Middle East, Africa, and Central Asia</p>	<p>China</p>	<p>Global</p>
<p>Royalties in high single digits</p>	<p>Over \$100 M potential value</p>	<p>Potential for 20 - 40% of economics from commercialization or acquisition</p>

HPP737: Oral, Novel, Potent and Selective PDE4 Inhibitor

Clinically Advanced

Phase 3 in psoriasis in China completed with once daily dosing¹

Ongoing long-term open label extension study in psoriasis (week 16-52)¹

Differentiated Profile

Preclinical potency on par with or superior to competitor PDE4 inhibitors (e.g., OTEZLA, Amgen®)²

Did not cross the blood-brain barrier in preclinical studies²

No significant GI intolerance (nausea, vomiting, diarrhea)³

No need for titration³

Potential Newsora Global Partnership

Additional \$20 M upfront

Up to \$41 M in development milestones

Up to \$35 M in sales-related milestones

Royalties in the mid to upper single digits based on sales

Global license effective upon payment of the \$20M upfront fee

Azeliragon: Novel, Oral Full Spectrum RAGE Antagonist

Cantex has an exclusive global license to develop and commercialize azeliragon

Mid- to Late-Stage Trials

Several ongoing US Phase 2 trials for the treatment of various cancer indications¹

Three FDA Orphan Drug Designations: glioblastoma, pancreatic cancer and brain metastasis from breast cancer²

US Phase 3 trial in hospitalized patients with pneumonia to prevent acute kidney injury¹

Characterized Clinical Profile

Well-tolerated safety profile in more than 2000 individuals dosed for periods up to 18 months³

Once daily dosing³

Clinical data showed inhibition of mechanisms that stimulate cancer growth³

Cantex Global License

With potential for 20-40% economics from acquisition or commercialization

Exclusive worldwide license for all indications except for diabetes, psoriasis and Alzheimer's disease

Additional Programs: Differentiation in Large Market Opportunities

TTP273 <i>Oral GLP-1 agonist</i>	HPP971 /HPP3033 <i>Nrf2/Bach1 Modulator</i>
Obesity <i>Phase 2 ready</i>	Oxidative inflammation <i>Phase 1 assets</i>
Negligible observed GI side effects¹	Franchise opportunity
Potential for improved tolerability, convenience and accessibility vs. current standards of care ¹	Diverse compounds with proof-of-concept efficacy data in multiple animal models ²
Expansion opportunities in weight management, T2D and beyond	Broad application

TTP273: Oral Small Molecule GLP-1 Receptor Agonist

Targets High Unmet Needs

42% of adults in the U.S. are obese¹

GI side effects like nausea and vomiting compromise adherence and efficacy²

Current peptide standards of care are limited by high cost and low supply³

Negligible observed GI side effects

No nausea and vomiting with improved satiety, HbA1c and body weight⁴

No need for titration or administration with meals⁴

Binds to an allosteric site distinct from the peptide site⁵

Expansion Potential

Ph1 and Ph 2 efficacy and tolerability profile support use for obesity, weight loss and T2D

Ideal for fixed dose combinations with oral agents

HPP971 /HPP3033: Nrf2-Bach 1 Modulator Platform

Potential to advance multiple distinct compounds targeting reduced oxidative stress and inflammation

Franchise Opportunity

Multiple non-electrophilic small-molecule compounds with distinct profiles

Opportunity to advance multiple molecules into different indications

Phase 1 Asset

Completed 1 month toxicology studies

Completed SAD and MAD studies

No dose limiting toxicities¹

Preclinical Efficacy/ Proof Of Concept

Observed in disease relevant animal models¹ related to:

Liver disease (NASH)

Kidney disease

Autoimmune disease (MS, IBD)

Reperfusion injury/hypertension

Neurodegeneration (Parkinson's disease, AD)

Bone Loss (Periodontitis, Osteoarthritis)

Ocular disease (Presbyopia)

Summary: Cadisegliatin has Potential to be First Oral Adjunct Therapy for T1D

Novel oral liver selective glucokinase activator in development to reduce hypoglycemia and improve glycemic control vs. insulin alone

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Thank You