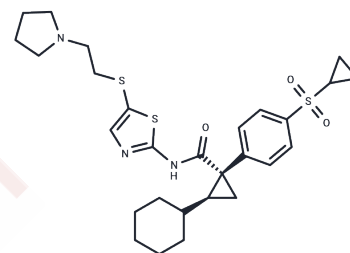


Globalagliatin

Chemical Properties

CAS No. :	1234703-40-2
Formula:	C ₂₈ H ₃₇ N ₃ O ₃ S ₃
Molecular Weight:	559.81
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Globalagliatin (LY2608204) has been used in trials studying the treatment of Diabetes Mellitus, Type 2.
Targets(IC50)	Glucokinase
In vitro	Under fasting and postprandial glucose conditions, LY2608204 demonstrated a dose-dependent reduction in blood glucose levels. Compared to the control group, the administration of a high dose of 30 mg/kg of the drug resulted in a maximum glucose-lowering effect of 42% on the glucose AUC. Interpolation analysis revealed that a 20% reduction in the glucose AUC occurred at an average LY2608204 concentration of 99 ng/mL (179 nM) in the plasma, equivalent to a dose of 6.9 mg/kg of LY2608204. The in vivo blood-brain barrier permeability of LY2608204 led to an average brain/plasma ratio of 0.17 and an average total brain level of 0.539 nmol/g, within 5 minutes.
In vivo	LY2608204 acts on rat insulinoma INS1-E cells, stimulating glucose metabolism with an EC ₅₀ of 579 nM. It activates glucokinase, presenting an EC ₅₀ of 42 nM in the presence of 10 mM glucose, demonstrating a concentration-dependent activation at lower glucose concentrations.

Solubility Information

Solubility	Ethanol: 33 mg/mL (58.95 mM),Sonication is recommended. H ₂ O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 103 mg/mL (183.99 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (7.15 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7863 mL	8.9316 mL	17.8632 mL
5 mM	0.3573 mL	1.7863 mL	3.5726 mL
10 mM	0.1786 mL	0.8932 mL	1.7863 mL
50 mM	0.0357 mL	0.1786 mL	0.3573 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Gupta, M., & Vadde, R. (2019). Insights into the structure-function relationship of both wild and mutant zinc transporter ZnT8 in human: a computational structural biology approach. *Journal Of Biomolecular Structure And Dynamics*, 1-15. doi: 10.1080/07391102.2019.1567391

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