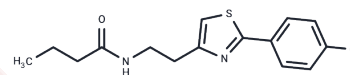


Azoramide

Chemical Properties

CAS No. :	932986-18-0
Formula:	C ₁₅ H ₁₇ ClN ₂ O ₂ S
Molecular Weight:	308.83
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	Azoramide, a small-molecule modulator, has the antidiabetic activity of unfolded protein response.
Targets(IC50)	Apoptosis,ERK,Bcl-2 Family,Reactive Oxygen Species,Caspase,Mitochondrial Metabolism,ROS
In vitro	Azoramide, a dual-function endoplasmic reticulum (ER) modulator, improves ER protein-folding ability and activates ER chaperone capacity to protect cells against ER stress in multiple systems.
In vivo	In two independent mouse models of obesity, Azoramide exhibits potent antidiabetic efficacy by improving insulin sensitivity and pancreatic β cell function.

Solubility Information

Solubility	DMSO: 50 mg/mL (161.9 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: 2 mg/mL (6.48 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	3.238 mL	16.1901 mL	32.3803 mL
5 mM	0.6476 mL	3.238 mL	6.4761 mL
10 mM	0.3238 mL	1.619 mL	3.238 mL
50 mM	0.0648 mL	0.3238 mL	0.6476 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

Fu S, et al. Sci Transl Med. 2015 Jun 17;7(292):292ra98. doi: 10.1126/scitranslmed.aaa9134. Phenotypic assays identify azoramide as a small-molecule modulator of the unfolded protein response with antidiabetic activity. Sci Transl Med. 2015 Jun 17;7(292):292ra98

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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