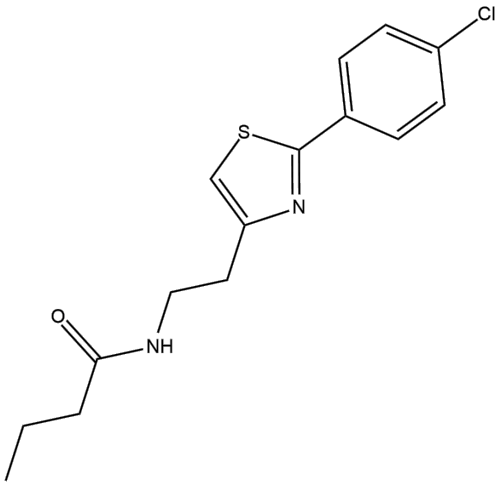
Product Data Sheet

Product Name: Azoramide
Cat. No.: GC19054

Chemical Properties

Cas. No.	932986-18-0		
SMILES	CCCC(NCCC1=CSC(C2=CC=C(Cl)C=C2)=N1)=O		
Formula	$C_{15}H_{17}ClN_2OS$	M.Wt	308.83
Solubility	DMSO : ≥ 30 mg/mL (97.14 mM)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Structure



Background

Azoramide is a small-molecule modulator of the unfolded protein response with antidiabetic activity.in vitro: Azoramide is a dual-function endoplasmic reticulum (ER) modulator. Azoramide improves ER protein-folding ability and activates ER chaperone capacity to protect cells against ER stress in multiple systems. Azoramide regulates ER folding and secretion capacity without inducing ER stress. Azoramide might have the protective effects of enhancing chaperone expression and reducing protein synthesis without inducing cytotoxicity and apoptosis.in vivo: Azoramide exhibits potent antidiabetic efficacy in two independent mouse models of obesity by improving insulin sensitivity and

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pancreatic β cell function. Azoramide improves glucose homeostasis in mice with genetic obesity. Azoramide improves glucose homeostasis in mice with diet-induced obesity.

References:

[1]. 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 withantidiabetic activity.

Caution: Product has not been fully validated for medical applications. For research use only.

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