

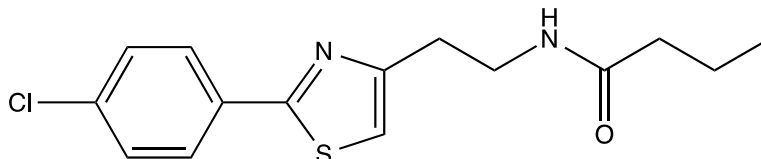
Catalog # 10-4629

Azoramide

CAS# 932986-18-0

N-[2-[2-(4-Chlorophenyl)-4-thiazolyl]ethyl]butanamide

Lot # JKM1143



Azoramide is a modulator of the unfolded protein response (UPR).¹ It improves endoplasmic reticulum (ER) protein folding and activates ER chaperone capacity to protect cells against ER stress. It displayed potent anti-diabetic activity in two mouse models by improving insulin sensitivity and pancreatic β cell function. Azoramide increased SERCA expression leading to enhanced calcium retention in the ER indicating calcium homeostasis as a possible mechanism for its anti-diabetic activity.

- 1) Fu (2015), *Phenotypic assays identify azoramide as a small-molecule modulator of the unfolded protein response with antidiabetic activity*; *Sci.Transl.Med.* **7** 292ra98

PHYSICAL DATA

Molecular Weight:	308.83
Molecular Formula:	C ₁₅ H ₁₇ ClN ₂ OS
Purity:	>98% (TLC)
	NMR: (Conforms)
Solubility:	DMSO (>25 mg/mL) and ethanol (>25 mg/mL)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

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