

## Azoramide, UPR modulator

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Catalog	Unit
TBI4629-10MG	10 mg
TBI4629-50MG	50 mg

### Product Details

**Formal Name:** N-[2-[2-(4-Chlorophenyl)-4-thiazolyl]ethyl]butanamide

**Molecular Formula:** C<sub>15</sub>H<sub>17</sub>ClN<sub>2</sub>OS

**Formula Weight:** 308.83

**CAS Number:** 932986-18-0

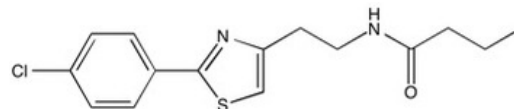
**Purity:** >98%

**Formulation:** powder

**Solubility:** Soluble in DMSO (up to at least 25 mg/ml) or in Ethanol (up to at least 25 mg/ml).

**Storage:** -20°C

**Stability:** ≥ 1 year.



### Applications

UPR modulator

### Functions

Azoramide is a modulator of the unfolded protein response (UPR). 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  $\beta$  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.

### Application Procedures

First dissolved in DMSO (up to at least 25 mg/ml) or in Ethanol (up to at least 25 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or Ethanol may be stored at -20°C for up to 3 months.

**For research use only.**