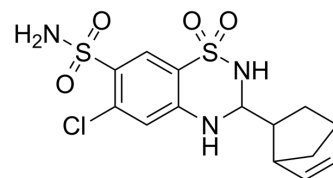


Cyclothiazide

Cat. No.:	HY-101165		
CAS No.:	2259-96-3		
Molecular Formula:	C ₁₄ H ₁₆ ClN ₃ O ₄ S ₂		
Molecular Weight:	389.88		
Target:	iGluR		
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (320.61 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.5649 mL	12.8245 mL	25.6489 mL
5 mM	0.5130 mL	2.5649 mL	5.1298 mL
10 mM	0.2565 mL	1.2824 mL	2.5649 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Cyclothiazide, a positive allosteric modulator of AMPA receptors, is used frequently to block the desensitization of both native and heterologously expressed AMPA receptors. Cyclothiazide is known to produce a fast inhibition of AMPA receptor desensitization and a much slower potentiation of the AMPA current^[1].

REFERENCES

[1]. Fucile S, et al. Effects of cyclothiazide on GluR1/AMPA receptors. Proc Natl Acad Sci U S A. 2006;103(8):2943-2947.

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

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