



Product Information

AMPA receptor inhibitor Cyclothiazide, Purity $\geq 98\%$

Cat. No.: X24-07-ZQ404

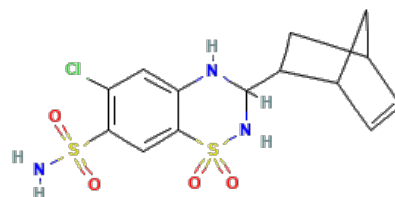
Size: 25 mg; 50 mg; 100 mg

CAS Number: 2259-96-3

Compound CID: 2910

Synonym: 2259-96-3; AMPA receptor inhibitor

This product is for research use only and is not intended for diagnostic use.



Product Information

Description	Cyclothiazide modulates the activity of AMPA receptors, which are critical for fast synaptic transmission in the central nervous system.
Molecular Weight	389.9
Molecular Formula	C ₁₄ H ₁₆ ClN ₃ O ₄ S ₂
IUPAC Name	3-(2-Bicyclo[2.2.1]hept-5-enyl)-6-chloro-1,1-dioxo-3,4-dihydro-2H-1λ6,2,4-benzothiadiazine-7-sulfonamide
InChI	InChI=1S/C14H16ClN3O4S2/c15-10-5-11-13(6-12(10)23(16,19)20)24(21,22)18-14(17-11)9-4-7-1-2-8(9)3-7/h1-2,5-9,14,17-18H,3-4H2,(H2,16,19,20)
InChI Key	BOCUKUHLICSIY-UHFFFAOYSA-N
Canonical SMILES	C1C2CC(C1C=C2)C3NC4=CC(=C(C=C4S(=O)(=O)N3)S(=O)(=O)N)Cl
Form	Lyophilized powder
Purity	$\geq 98\%$
Identity	Confirmed by NMR/HPLC/MS.
Stability	The product is stable for three years when stored at the recommended temperature in lyophilized powder.
Quality Level	Research grade
Applications	Cyclothiazide acts as an AMPA receptor inhibitor, used in the study of synaptic plasticity and neurodegenerative diseases.
Storage	Store at -20°C, and keep desiccated.