

Product Name	: Cyclothiazide
Synonyms	: Cyclothiazide; Anhydron; Renazide; Valmiran
Cat No.	: M18266
CAS Number	: 2259-96-3
Molecular Formula	: C ₁₄ H ₁₆ ClN ₃ O ₄ S ₂
Formula Weight	: 389.9
Chemical Name	: 3-(bicyclo[2.2.1]hept-5-en-2-yl)-6-chloro-3,4-dihydro-2H-benzo[e][1,2,4]thiadiazine-7-sulfonamide 1,1-dioxide
Description	Cyclothiazide (Anhydron, Acquirel, Doburil, Fluidil, Renazide, Tensodiural, Valmiran) is a benzothiadiazide (thiazide) diuretic and antihypertensive that was originally introduced in the United States in 1963 by Eli Lilly and was subsequently also marketed in Europe and Japan. This agent is capable of inhibiting rapid desensitization of the ionotropic alpha-amino-3-hydroxy-5-methylisoxazole-4-propionic acid (AMPA)-type glutamate receptors, thereby potentiating glutamate responses which may induce seizures activity. Cyclothiazide was also found to inhibit gamma-aminobutyric acid (GABA)-A receptors.
Pathway	: Metabolic Enzyme/Protease
Target	: LDL
Receptor	: AMPA
Solubility	: —
SMILES	: <chem>NS(=O)(=O)c1cc2c(NC(NS2(=O)=O)C2CC3CC2C=C3)cc1Cl</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1.Kessler et al (2000) The norbornenyl moiety of cyclothiazide determines the preference for flip-flop variants of AMPA receptor subunits.Neurosci.Lett. 287 161.