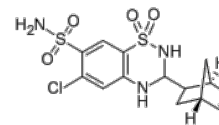


Product Name : Cyclothiazide
Cat. No. : PC-61706
CAS No. : 2259-96-3
Molecular Formula : C₁₄H₁₆ClN₃O₄S₂
Molecular Weight : 389.88
Target : iGluR
Solubility : 10 mM in DMSO



Biological Activity

Cyclothiazide (Doburil) is a positive allosteric modulator of the **AMPA** and kainate receptors that potentiates AMPA-mediated glutamate currents.

Cyclothiazide also acts as a GABAA receptor negative allosteric modulator, potently inhibiting GABAA-mediated currents. Cyclothiazide induces robust epileptiform activity in rat hippocampal neurons both in vitro and in vivo.

References

Yamada KA, et al. *J Neurosci*. 1993 Sep;13(9):3904-15.

Deng L, et al. *Proc Natl Acad Sci U S A*. 2003 Oct 28;100(22):13025-9.

Qi J, et al. *J Physiol*. 2006 Mar 15;571(Pt 3):605-18.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com