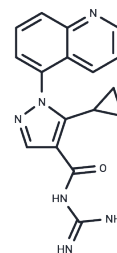


Zoniporide

Chemical Properties

CAS No. :	241800-98-6
Formula:	C17H16N6O
Molecular Weight:	320.35
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Zoniporide (CP-597396) is an NHE-1 inhibitor that inhibits the uptake of 22Na ⁺ by fibroblasts expressing human NHE-1 in a concentration-dependent manner, inhibits platelet swelling, and can be used in the study of cardiovascular diseases.
Targets(IC50)	Sodium Channel
In vivo	In rats, Zoniporide (1 mg/kg; i.v.) shows the AUC _{0-∞} = 0.07 µg h/mL, and t _{1/2} are 0.5 hours, respectively. [1] In open chest anesthetized rabbits, Zoniporide (0.25, 1, 4 mg/kg; i.v.) dose-dependently reduces infarct size with an ED ₅₀ = 0.45 mg/kg/h. Zoniporide exhibits moderate plasma protein binding with t _{1/2} of 1.5h in monkeys. [2]

Solubility Information

Solubility	DMSO: 100 mg/mL (312.16 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1216 mL	15.6079 mL	31.2159 mL
5 mM	0.6243 mL	3.1216 mL	6.2432 mL
10 mM	0.3122 mL	1.5608 mL	3.1216 mL
50 mM	0.0624 mL	0.3122 mL	0.6243 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Tracey WR, et al. Zoniporide: a potent and selective inhibitor of the human sodium-hydrogen exchanger isoform 1 (NHE-1). *Cardiovasc Drug Rev.* 2003 Spring;21(1):17-32.

Guzman-Perez A, et al. Discovery of zoniporide: a potent and selective sodium-hydrogen exchanger type 1 (NHE-1) inhibitor with high aqueous solubility. *Bioorg Med Chem Lett.* 2001 Mar 26;11(6):803-7.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only. Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481