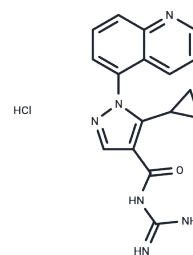


Zoniporide hydrochloride

Chemical Properties

CAS No. :	241800-97-5
Formula:	C ₁₇ H ₁₇ ClN ₆ O
Molecular Weight:	356.81
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Zoniporide hydrochloride is a selective inhibitor of NHE-1 with IC ₅₀ of 14 nM which is >150-fold selectivity versus other NHE isoforms. Zoniporide hydrochloride shows an IC ₅₀ of 59 nM for NHE-1-dependent swelling of human platelets.
Targets(IC ₅₀)	Sodium Channel
In vivo	In rats, Zoniporide hydrochloride (1 mg/kg; i.v.) shows the AUC _{0-∞} and t _{1/2} are 0.07 μg h/mL and 0.5 hours, respectively[1]. In open chest anesthetized rabbits, Zoniporide hydrochloride (0.25, 1, 4 mg/kg; i.v.) dose-dependently reduces infarct size with an ED ₅₀ of 0.45 mg/kg/h. Zoniporide hydrochloride exhibits moderate plasma protein binding with t _{1/2} of 1.5h in monkeys[2].

Solubility Information

Solubility	DMSO: Slightly soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8026 mL	14.0131 mL	28.0261 mL
5 mM	0.5605 mL	2.8026 mL	5.6052 mL
10 mM	0.2803 mL	1.4013 mL	2.8026 mL
50 mM	0.0561 mL	0.2803 mL	0.5605 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

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.

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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