Data Sheet (Cat.No.T8435)

YM90K

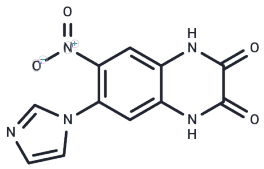
Chemical Properties

CAS No. : 154164-30-4

Formula: C11H8ClN5O4

Molecular Weight: 309.66

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	YM90K (6-(1H-imidazol-1-yl)-7-nitro-2,3(1H,4H)-) hydrochloride is an antagonist of AMPA receptor.
Targets(IC50)	GluR,iGluR
In vivo	In a global ischemia model, YM90K (15 mg/kg i.p. x 3), NBQX (30 mg/kg i.p. x 3) and CNQX (60 mg/kg i.p. x 3) significantly prevented the delayed neuronal death in the hippocampal CA1 region in Mongolian gerbils when administered 1 h after 5-min ischemia.?In addition, the therapeutic time window for the neuroprotective effect of YM90K (30 mg/kg i.p. x 3) was 6 h. In a focal ischemia model, YM90K (30 mg/kg i.v. bolus+10 mg/kg/h for 4 h) reduced the volume of ischemic damage in the cerebral cortex in F344 rats[1].

Solubility Information

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

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2293 mL	16.1467 mL	32.2935 mL
5 mM	0.6459 mL	3.2293 mL	6.4587 mL
10 mM	0.3229 mL	1.6147 mL	3.2293 mL
50 mM	0.0646 mL	0.3229 mL	0.6459 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

M ShimizuSasamata, S KawasakiYatsugi, M Okada,et al. YM90K: pharmacological characterization as a selective and potent alpha-amino-3-hydroxy-5-methylisoxazole-4-propionate/kainate receptor antagonist.[C]// International Conference on Multimedia & Ubiquitous Engineering. IEEE Computer Society, 2007.

Kawasaki-Yatsugi S , Ichiki C , Yatsugi S I , et al. YM90K, an AMPA receptor antagonist, protects against ischemic damage caused by permanent and transient middle cerebral artery occlusion in rats[J]. Naunyn Schmiedebergs Archives of Pharmacology, 1998, 358(5):586-591.

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