Data Sheet (Cat.No.T12110)

TargetMol

MRZ 2-514

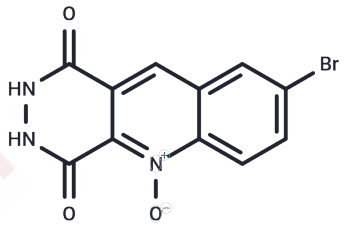
Chemical Properties

CAS No. : 202808-11-5

Formula: C11H6BrN3O3

Molecular Weight: 308.09

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	MRZ 2-514 (8-bromo-4,5-dihydroxypyridazino[4,5-b]quinolin-1-one) is a strychnine-insensitive modulatory site of the NMDA receptor (glycineB)antagonist with Ki of 33 μM.
Targets(IC50)	NMDAR,iGluR
In vitro	MRZ 2-514 against peak AMPA-induced currents with IC50 values of 72.7 μM[1].
In vivo	In mice, MRZ 2-514 has anticonvulsive action in the MES model, and the effect is prolonged by probenecid[1].

Solubility Information

Solubility	DMSO: 18.33 mg/mL (59.5 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2458 mL	16.229 mL	32.458 mL
5 mM	0.6492 mL	3.2458 mL	6.4916 mL
10 mM	0.3246 mL	1.6229 mL	3.2458 mL
50 mM	0.0649 mL	0.3246 mL	0.6492 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

Parsons CG, et al. Novel systemically active antagonists of the glycine site of the N-methyl-D-aspartate receptor: electrophysiological, biochemical and behavioral characterization. Journal of Pharmacology and Experimental Therapeutics (1997), 283(3), 1264-1275

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