Data Sheet (Cat.No.T12619L)

TargetMol
A DRUG SCREENING EXPERT

Quetiapine sulfoxide dihydrochloride

Chemical Properties

CAS No.:	329218-11-3
Formula:	C21H27Cl2N3O3S
Molecular Weight:	472.43
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Quetiapine sulfoxide dihydrochloride is a main Quetiapinem metabolite. Quetiapine is a agonist of 5-HT receptors and a antagonist of dopamine receptor.Quetiapine is a second-generation antipsychotic.
Targets(IC_{50})	Others: None
In vivo	For Quetiapine sulfoxide, metabolic ratio decreases with time, from 119% on average 2 hours after dosing to 30% on average 72 hours after dosing[1].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.117 mL	10.584 mL	21.167 mL
5 mM	0.423 mL	2.117 mL	4.233 mL
10 mM	0.212 mL	1.058 mL	2.117 mL
50 mM	0.042 mL	0.212 mL	0.423 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Remmerie B, et al. Comparison of Capillary and Venous Drug Concentrations After Administration of a Single Dose of Risperidone, Paliperidone, Quetiapine, Olanzapine, or Aripiprazole. Clin Pharmacol Drug Dev. 2016 Nov;5(6):528-537.
2. Cross AJ, et al. Quetiapine and its metabolite norquetiapine: translation from in vitro pharmacology to in vivo efficacy in rodent models. Br J Pharmacol. 2016 Jan;173(1):155-66.

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