Quetiapine sulfoxide dihydrochloride

Cat. No.: HY-G0014A

CAS No.: 329218-11-3

Molecular Formula: $C_{21}H_{27}Cl_2N_3O_3S$

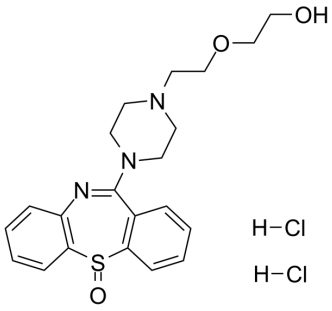
Molecular Weight: 472.43

Target: Drug Metabolite

Pathway: Metabolic Enzyme/Protease

Storage: 4°C, sealed storage, away from moisture

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

H_2O : 250 mg/mL (529.18 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.1167 mL	10.5836 mL	21.1672 mL
	5 mM	0.4233 mL	2.1167 mL	4.2334 mL
	10 mM	0.2117 mL	1.0584 mL	2.1167 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: PBS
   Solubility: 50 mg/mL (105.84 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

Quetiapine sulfoxide dihydrochloride (Quetiapine S-oxide dihydrochloride) is a main metabolite of Quetiapinem. Quetiapine is a second-generation antipsychotic[1]. Quetiapine is a 5-HT receptors agonist and a dopamine receptor antagonist[2].

In Vivo

The C_{max} value (mean±SD) is estimated for Quetiapine sulfoxide (77.3±32.4 ng/mL). The AUC_{last} value is estimated for Quetiapine sulfoxide (1,286±458 ng•h/mL). 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].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[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.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA