

Product Datasheet

Quetiapine sulfoxide dihydrochloride

Catalog No. **BP-01702A** · CAS **329218-11-3** · Form **salt** · **dihydrochloride** · Physical state **solid** · Color **White to yellow** ·
Version **1.0** · Revision **2026-09-11**

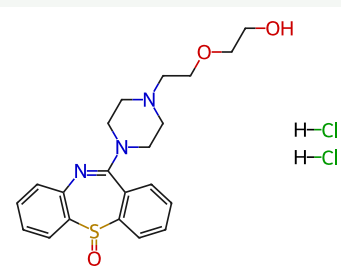
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Target Drug Metabolite	Research area Neurological Disease
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Molecular formula **C₂₁H₂₇Cl₂N₃O₃S**

Molecular weight **472.4280**

STRUCTURE



DESCRIPTION

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

BIOLOGICAL ACTIVITY

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.

SOLUBILITY

Soluble in H₂O

In vitro H₂O : 233.33 mg/mL

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.