
Product Data Sheet

Product Name: Quetiapine sulfoxide

Cat. No.: GC37056

Chemical Properties

Cas. No. 329216-63-9

SMILES OCCOCCN(CC1)CCN1C2=NC(C=CC=C3)=C3S(C4=C2C=CC=C4)=O

Formula $C_{21}H_{25}N_3O_3S$ M.Wt 399.51

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

Background

Quetiapine sulfoxide (Quetiapine S-oxide) is a main metabolite of Quetiapine. Quetiapine is a second-generation antipsychotic[1].

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].

[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.

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

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