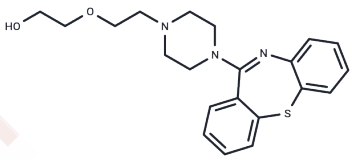
Data Sheet (Cat.No.T0162)

TargetMol

Quetiapine

Chemical Properties



CAS No. : 111974-69-7

Formula: C21H25N3O2S

Molecular Weight: 383.51

Appearance: no data available

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Quetiapine (ICI204636) is used for the therapy of schizophrenia, and for the treatment of acute manic episodes associated with bipolar I disorder. The mechanism of quetiapine' action is thought by mediated through antagonist activity at serotonin and dopamine receptors. Specifically, the D1 and D2 dopamine, the α1 adrenoreceptor and α2 adrenoreceptor, and 5-HT1A and 5-HT2 serotonin receptor subtypes are antagonized. Quetiapine also can inhibit the histamine H1 receptor.
Targets(IC50)	5-HT Receptor,Adrenergic Receptor,AChR,Histamine Receptor,Dopamine Receptor

Solubility Information

Solubility	H2O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 45 mg/mL (117.34 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6075 mL	13.0375 mL	26.0749 mL
5 mM	0.5215 mL	2.6075 mL	5.215 mL
10 mM	0.2607 mL	1.3037 mL	2.6075 mL
50 mM	0.0521 mL	0.2607 mL	0.5215 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.

Reference

Nasrallah HA. Mol Psychiatry. 2008 Jan;13(1):27-35.

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