

Quetiapine

Chemical Properties

CAS No. : 111974-69-7

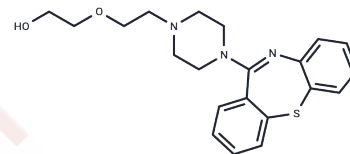
Formula: C₂₁H₂₅N₃O₂S

Molecular Weight: 383.51

Store at low temperature

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

Actual storage temperature shall be subject to the COA.



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 α 1 adrenoreceptor and α 2 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	H ₂ O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 120 mg/mL (312.9 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: < 10 mg/mL (26.07 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (26.07 mM),Solution. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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

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