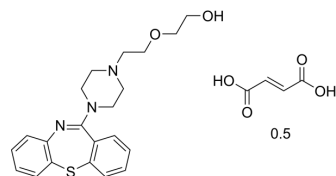


Quetiapine hemifumarate (Standard)

Cat. No.:	HY-B0031R
CAS No.:	111974-72-2
Molecular Formula:	C ₂₅ H ₂₉ N ₃ O ₆ S
Molecular Weight:	499.58
Target:	5-HT Receptor; Dopamine Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (100.08 mM; Need ultrasonic)
H₂O : 1.25 mg/mL (2.50 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.0017 mL	10.0084 mL	20.0168 mL
	5 mM	0.4003 mL	2.0017 mL	4.0034 mL
	10 mM	0.2002 mL	1.0008 mL	2.0017 mL

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

BIOLOGICAL ACTIVITY

Description

Quetiapine (hemifumarate) (Standard) is the analytical standard of Quetiapine (hemifumarate). This product is intended for research and analytical applications. Quetiapine hemifumarate is a 5-HT receptors agonist with a pEC₅₀ of 4.77 for human 5-HT_{1A} receptor. Quetiapine hemifumarate is a dopamine receptor antagonist with a pIC₅₀ of 6.33 for human D₂ receptor. Quetiapine hemifumarate has moderate to high affinity for the human D₂, HT_{1A}, 5-HT_{2A}, 5-HT_{2C} receptor with pK_is of 7.25, 5.74, 7.54, 5.55. Antidepressant and anxiolytic effects^[1].

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

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