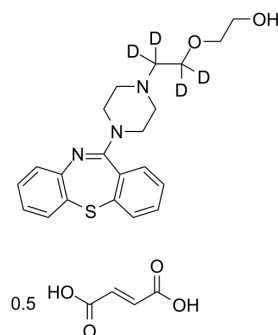


Quetiapine-d₄ hemifumarate

Cat. No.:	HY-B0031S1
CAS No.:	1217310-65-0
Molecular Formula:	C ₂₃ H ₂₃ D ₄ N ₃ O ₄ S
Molecular Weight:	445.57
Target:	5-HT Receptor; Dopamine Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (224.43 mM; ultrasonic and warming and heat to 80°C)
 DMSO : 50 mg/mL (112.22 mM; Need ultrasonic)
 H₂O : 1.25 mg/mL (2.81 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
	Concentration				
	1 mM		2.2443 mL	11.2216 mL	22.4432 mL
	5 mM		0.4489 mL	2.2443 mL	4.4886 mL
	10 mM		0.2244 mL	1.1222 mL	2.2443 mL

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

BIOLOGICAL ACTIVITY

Description

Quetiapine-d₄ (hemifumarate) is the deuterium labeled Quetiapine hemifumarate. Quetiapine hemifumarate is a 5-HT receptors agonist and a dopamine receptor antagonist. Antidepressant and anxiolytic effects[1].

REFERENCES

[1]. 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.

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

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