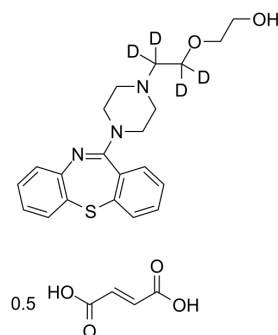


## Quetiapine-d<sub>4</sub> hemifumarate

**Cat. No.:** HY-B0031S1  
**CAS No.:** 1217310-65-0  
**Molecular Formula:** C<sub>23</sub>H<sub>23</sub>D<sub>4</sub>N<sub>3</sub>O<sub>4</sub>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)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	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-d<sub>4</sub> (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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