

Duloxetine-D3 hydrochloride

Chemical Properties

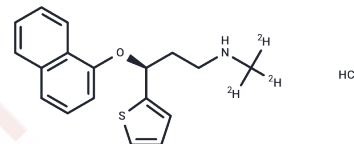
CAS No. : 1435727-97-1

Formula: C₁₈H₂₀ClNOS

Molecular Weight: 336.89

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

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Duloxetine-D3 hydrochloride is a serotonin-norepinephrine reuptake inhibitor (SNRI) with a K_i of 4.6 nM, used for the treatment of major depressive disorder and generalized anxiety disorder (GAD). Duloxetine D3 hydrochloride ((S)-Duloxetine D3 hydrochloride) is a deuterium-labeled Duloxetine hydrochloride (TMSM-3429).
Targets(IC50)	Serotonin Transporter

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9683 mL	14.8416 mL	29.6833 mL
5 mM	0.5937 mL	2.9683 mL	5.9367 mL
10 mM	0.2968 mL	1.4842 mL	2.9683 mL
50 mM	0.0594 mL	0.2968 mL	0.5937 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

De Berardis, D., et al., The effect of newer serotonin-noradrenalin antidepressants on cytokine production: a review of the current literature. *Int J Immunopathol Pharmacol*, 2010. 23(2): p. 417-22.

Wang, S.Y., J. Calderon, and G. Kuo Wang, Block of neuronal Na⁺ channels by antidepressant duloxetine in a state-dependent manner. *Anesthesiology*, 2010. 113(3): p. 655-65.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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