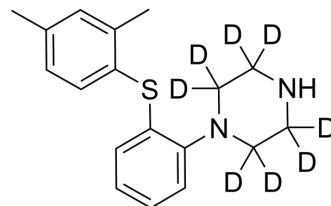


Vortioxetine-d₈

Cat. No.:	HY-15414S
CAS No.:	2140316-62-5
Molecular Formula:	C ₁₈ H ₁₄ D ₈ N ₂ S
Molecular Weight:	306.49
Target:	5-HT Receptor; Serotonin Transporter; Isotope-Labeled Compounds
Pathway:	GPCR/G Protein; Neuronal Signaling; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Vortioxetine-d₈ is a deuterium labeled Vortioxetine. Vortioxetine is an inhibitor of 5-HT_{1A}, 5-HT_{1B}, 5-HT_{3A}, 5-HT₇ receptor and SERT, with K_i values of 15 nM, 33 nM, 3.7 nM, 19 nM and 1.6 nM, respectively[1][2][3][4][5].

REFERENCES

- [1]. Bang-Andersen B, Ruhland T, J rgensen M, Discovery of 1-[2-(2,4-dimethylphenylsulfanyl)phenyl]piperazine (Lu AA21004): a novel multimodal compound for the treatment of major depressive disorder. *J Med Chem.* 2011 May 12;54(9):3206-21.
- [2]. Guilloux JP, Mendez-David I, Pehrson A, Antidepressant and anxiolytic potential of the multimodal antidepressant vortioxetine (Lu AA21004) assessed by behavioural and neurogenesis outcomes in mice. *Neuropharmacology.* 2013 May 28;73C:147-159.
- [3]. Theunissen EL, Street D, H?jer AM, A randomized trial on the acute and steady-state effects of a new antidepressant, vortioxetine (Lu AA21004), on actual driving and cognition. *Clin Pharmacol Ther.* 2013 Jun;93(6):493-501.
- [4]. Rothschild AJ, Mahableshwarkar AR, Jacobsen P, Vortioxetine (Lu AA21004) 5mg in generalized anxiety disorder: results of an 8-week randomized, double-blind, placebo-controlled clinical trial in the United States. *Eur Neuropsychopharmacol.* 2012 Dec;22(12):858-66.
- [5]. Mørk A, Pehrson A, Brennum LT, Pharmacological effects of Lu AA21004: a novel multimodal compound for the treatment of major depressive disorder. *J Pharmacol Exp Ther.* 2012 Mar;340(3):666-75.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA