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Zuschläge

- Mindermengenzuschlag
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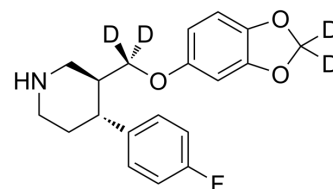
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Paroxetine-d₄

Cat. No.:	HY-122272S
CAS No.:	923932-45-0
Molecular Formula:	C ₁₉ H ₁₆ D ₄ FNO ₃
Molecular Weight:	333.39
Target:	Isotope-Labeled Compounds; Serotonin Transporter; Adrenergic Receptor; Apoptosis; P2X Receptor
Pathway:	Others; Neuronal Signaling; GPCR/G Protein; Apoptosis; Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Paroxetine-d₄ (BRL29060-d₄) is deuterium labeled Paroxetine. Paroxetine is an oral inhibitor that falls under the category of selective serotonin reuptake inhibitors (SSRIs). Paroxetine is also a very weak norepinephrine (NE) reuptake inhibitor, capable of inducing cell apoptosis and having anti-tumor activity. Paroxetine has antidepressant, anti-anxiety, and pain-relieving effects, and it can help improve conditions like obsessive-compulsive disorder, panic disorder, post-traumatic stress disorder, premenstrual anxiety, and chronic headaches^{[1][2][3][4][5]}.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Young-Woo Cho, et al. Paroxetine Induces Apoptosis of Human Breast Cancer MCF-7 Cells through Ca²⁺-and p38 MAP Kinase-Dependent ROS Generation. *Cancers (Basel)*. 2019 Jan 9;11(1):64.
- [3]. M Bourin, et al. Paroxetine: a review. *CNS Drug Rev*. Spring 2001;7(1):25-47
- [4]. Malek Zarei, et al. Paroxetine attenuates the development and existing pain in a rat model of neuropathic pain. *Iran Biomed J*. 2014;18(2):94-100.
- [5]. S Lightowler, et al. Anxiolytic-like effect of paroxetine in a rat social interaction test. *Pharmacol Biochem Behav*. 1994 Oct;49(2):281-5.

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

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