



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC Handels GmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

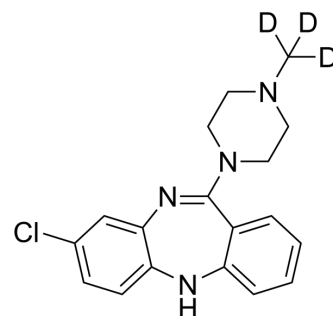
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Clozapine-d₃

Cat. No.:	HY-14539S3
CAS No.:	1215691-72-7
Molecular Formula:	C ₁₈ H ₁₆ D ₃ ClN ₄
Molecular Weight:	329.84
Target:	Isotope-Labeled Compounds; 5-HT Receptor; Adrenergic Receptor; Dopamine Receptor; mAChR
Pathway:	Others; GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Clozapine-d₃ (HF 1854-d₃) is deuterium labeled Clozapine. Clozapine (HF 1854) is an antipsychotic used for the research of schizophrenia. Clozapine has high affinity for a number of neuroreceptors. Clozapine is a potent antagonist of dopamine D₂ with a K_i of 75 nM. Clozapine inhibits the muscarinic M₁ receptor and serotonin 5HT_{2A} receptor with K_is of 9.5 nM and 4 nM, respectively^{[1][2][3]}. Clozapine is also a potent and selective agonist at the muscarinic M₄ receptor (EC₅₀=11 nM)^{[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]. Seeman P, et al. Clozapine, a fast-off-D₂ antipsychotic. *ACS Chem Neurosci*. 2014 Jan 15;5(1):24-9.
- [3]. Zorn SH, et al. Clozapine is a potent and selective muscarinic M₄ receptor agonist. *Eur J Pharmacol*. 1994 Nov 15;269(3):R1-2.
- [4]. Zhukovskaya NL, et al. Clozapine downregulates 5-hydroxytryptamine₆ (5-HT₆) and upregulates 5-HT₇ receptors in HeLa cells. *Neurosci Lett*. 2000 Jul 21;288(3):236-40.
- [5]. Moreno JL, et al. Persistent effects of chronic clozapine on the cellular and behavioral responses to LSD in mice. *Psychopharmacology (Berl)*. 2013 Jan;225(1):217-26.

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