



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 HandelsgmbH

Quellenstraße 110, A-1100 Wien

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

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

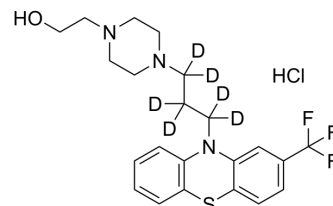
mail@szabo-scandic.com

www.szabo-scandic.com

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

Fluphenazine-d₆ hydrochloride

Cat. No.:	HY-119980BS
Molecular Formula:	C ₂₂ H ₂₁ D ₆ ClF ₃ N ₃ OS
Molecular Weight:	480.02
Target:	Isotope-Labeled Compounds; Dopamine Receptor; Sodium Channel; SARS-CoV
Pathway:	Others; GPCR/G Protein; Neuronal Signaling; Membrane Transporter/Ion Channel; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Fluphenazine-d₆ (hydrochloride) is deuterium labeled Fluphenazine (hydrochloride). Fluphenazine hydrochloride is a potent, orally active phenothiazine-based dopamine receptor antagonist. Fluphenazine hydrochloride blocks neuronal voltage-gated sodium channels. Fluphenazine hydrochloride acts primarily through antagonism of postsynaptic dopamine-2 receptors in mesolimbic, nigrostriatal, and tuberoinfundibular neural pathways. Fluphenazine hydrochloride can antagonize Methylphenidate-induced stereotyped gnawing and inhibit climbing behaviour in mice. Fluphenazine hydrochloride can be used for researching psychosis and painful peripheral neuropathy associated with diabetes and has potential to inhibit SARS-CoV-2^{[1][2][3][4][6][7]}.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Zhou X, et al. The neuroleptic drug, fluphenazine, blocks neuronal voltage-gated sodium channels. *Brain Res*. 2006;1106(1):72-81.
- [3]. Nazeam J, et al. Based on Principles and Insights of COVID-19 Epidemiology, Genome Sequencing, and Pathogenesis: Retrospective Analysis of Sinigrin and ProlixinRX (Fluphenazine) Provides Off-Label Drug Candidates. *SLAS Discov*. 2020 Dec;25(10):1123-1140.
- [4]. Siragusa S, Bistas KG, Saadabadi A. Fluphenazine. 2022 May 8. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2022 Jan.
- [5]. Davis JL, et al. Peripheral diabetic neuropathy treated with amitriptyline and fluphenazine. *JAMA*. 1977 Nov 21;238(21):2291-2.
- [6]. Abdel-Hamid HA, et al. Teratogenic effect of diphenylhydantoin and/or fluphenazine in mice. *J Appl Toxicol*. 1996 May-Jun;16(3):221-5.
- [7]. Langwiński R, Niedzielski J. Narcotic analgesics and stereotyped behaviour in mice. *Naunyn Schmiedebergs Arch Pharmacol*. 1980 Jul;312(3):225-7.

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