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Produktinformation



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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

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- Trockeneiszuschlag
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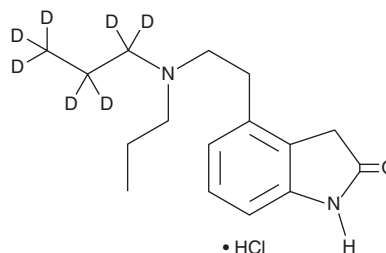
PRODUCT INFORMATION



Ropinirole-d₇ (hydrochloride)

Item No. 31689

CAS Registry No.: 1261396-31-9
Formal Name: 4-(2-(propyl(propyl-d₇)amino)ethyl)indolin-2-one, monohydrochloride
Synonym: SKF 101468A-d₇
MF: C₁₆H₁₇D₇N₂O • HCl
FW: 303.9
Chemical Purity: ≥95% (Ropinirole)
Deuterium Incorporation: ≥99% deuterated forms (d₁-d₇); ≤1% d₀
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Ropinirole-d₇ (hydrochloride) is intended for use as an internal standard for the quantification of ropinirole (Item No. 23871) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated versus unlabeled).

Ropinirole-d₇ (hydrochloride) is supplied as a solid. A stock solution may be made by dissolving the ropinirole-d₇ (hydrochloride) in the solvent of choice, which should be purged with an inert gas. Ropinirole-d₇ (hydrochloride) is soluble in a 1:1 solution of acetonitrile:methanol. Ropinirole-d₇ (hydrochloride) is also soluble in DMSO.

Description

Ropinirole is a dopamine D₂ receptor agonist that induces [³⁵S]GTPγS binding in CHO cells expressing the human receptor (EC₅₀ = 304 nM).¹ It is selective for dopamine D₂ over D₁ receptors (K_is = 29 and >100,000 nM, respectively), as well as a panel of adrenergic, serotonin (5-HT), benzodiazepine, and GABA receptors (IC₅₀s = >9,000 nM for all).² Ropinirole reduces spontaneous locomotor activity in mice at doses less than 50 mg/kg but increases it at a dose of 100 mg/kg. It also induces contralateral asymmetry in 6-OHDA-lesioned mice. Ropinirole (0.01-1 mg/kg) reverses locomotor deficits and restores interest in novel stimuli in a marmoset model of Parkinson's disease induced by MPTP. Formulations containing ropinirole have been used in the treatment of Parkinson's disease motor dysfunction.

References

1. Ghosh, B., Antonio, T., Reith, M.E.A., *et al.* Discovery of 4-(4-(2-((5-hydroxy-1,2,3,4-tetrahydronaphthalen-2-yl)(propyl)amino)ethyl)piperazin-1-yl)quinolin-8-ol and its analogues as highly potent dopamine D₂/D₃ agonists and as iron chelator: in vivo activity indicates potential application in symptomatic and neuroprotective therapy for Parkinson's disease. *J. Med. Chem.* **53(5)**, 2114-2125 (2010).
2. Eden, R.J., Costall, B., Domeney, A.M., *et al.* Preclinical pharmacology of ropinirole (SK&F 101468-A) a novel dopamine D₂ agonist. *Pharmacol. Biochem. Behav.* **38(1)**, 147-154 (1991).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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