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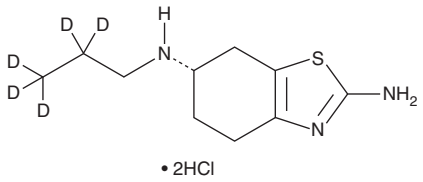
PRODUCT INFORMATION

(S)-Pramipexole-d_5 (hydrochloride)

Item No. 31239

CAS Registry No.:	1217601-58-5
Formal Name:	(S)-N^6-(propyl-2,2,3,3,3-d_5)-4,5,6,7-tetrahydrobenzo[d]thiazole-2,6-diamine, dihydrochloride
Synonyms:	(–)-Pramipexole-d_5, Pramipexole-d_5, SND 19-d_5
MF:	$C_{10}H_{12}D_5N_3S \bullet 2HCl$
FW:	289.3
Chemical Purity:	≥98% ((S)-POramipexole)
Deuterium Incorporation:	≥99% deuterated forms (d_1-d_5); ≤1% d_0
Supplied as:	A solid
Storage:	-20°C
Stability:	≥2 years



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

Laboratory Procedures

(S)-Pramipexole-d_5 (hydrochloride) is intended for use as an internal standard for the quantification of (S)-pramipexole (Item No. 11981) 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).

(S)-Pramipexole-d_5 (hydrochloride) is supplied as a solid. A stock solution may be made by dissolving the (S)-pramipexole-d_5 (hydrochloride) in the solvent of choice, which should be purged with an inert gas. (S)-Pramipexole-d_5 (hydrochloride) is slightly soluble in methanol.

Description

(S)-Pramipexole is a dopamine D_{2S}, D_{2L}, D_3, and D_4 receptor agonist (EC_{50}s = 426.58, 338.84, 2.24, and 128.82 nM, respectively, in a [^{35}S]GTPγS binding assay).[1] It is also a partial agonist of α_{2A}-adrenergic receptors (α_{2A}-ARs; EC_{50} = 3,548.13 nM). (S)-Pramipexole is selective for dopamine D_{2-4} receptors (K_is = 954.99, 1,698.24, 12.59, 128.82 nM for D_{2S}, D_{2L}, D_3, and D_4 receptors, respectively, in a radioligand binding assay) over D_1 and D_5 receptors (K_is = >10,000 nM for both).[2] It prevents MPTP-induced decreases in the number of dopaminergic neurons in the substantia nigra pars compacta in common marmosets when administered at a dose of 60 µg/kg per day before, during, and after administration of MPTP.[3] Formulations containing (S)-pramipexole have been used in the treatment of Parkinson's disease and restless legs syndrome.

References

1. Newman-Tancredi, A., Cussac, D., Audinot, V., *et al.* Differential actions of antiparkinson agents at multiple classes of monoaminergic receptor. II. Agonist and antagonist properties at subtypes of dopamine D_2-like receptor and α_1/α_2-adrenoceptor. *J. Pharmacol. Exp. Ther.* **303(2)**, 805-814 (2002).
2. Millan, M.J., Maiofiss, L., Cussac, D., *et al.* Differential actions of antiparkinson agents at multiple classes of monoaminergic receptor. I. A multivariate analysis of the binding profiles of 14 drugs at 21 native and cloned human receptor subtypes. *J. Pharmacol. Exp. Ther.* **303(2)**, 791-804 (2002).
3. Iravani, M.M., Haddon, C.O., Cooper, J.M., *et al.* Pramipexole protects against MPTP toxicity in non-human primates. *J. Neurochem.* **96(5)**, 1315-1321 (2006).

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