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- Trockeneiszuschlag
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- Expressversand

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PRODUCT INFORMATION

Bromocriptine-^{13}C-d$_3$

Item No. 26669

Formal Name: (6aR,9R)-5-bromo-N-((2R,5S,10aS,10bS)-10b-hydroxy-5-isobutyl-2-isopropyl-3,6-dioxooctahydro-8H-oxazolo[3,2-a]pyrrolo[2,1-c]pyrazin-2-yl)-7-(methyl-^{13}C-d$_3$)-4,6,6a,7,8,9-hexahydroindolo[4,3-fg]quinoline-9-carboxamide

Synonym: CB-154-^{13}C-d$_3$

MF: $C_{31}[^{13}C]H_{37}D_3BrN_5O_5$

FW: 658.6

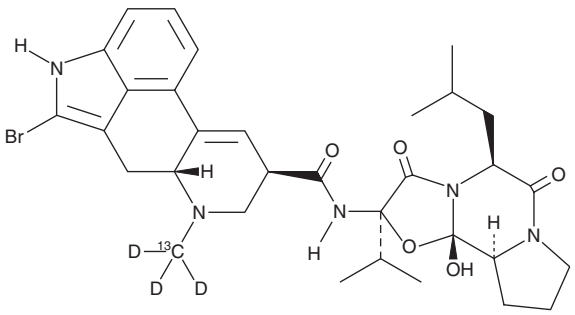
Chemical Purity: ≥98% (Bromocriptine)

Deuterium Incorporation: ≥99% deuterated forms (d$_1$-d$_3$); ≤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

Bromocriptine-^{13}C-d$_3$ is intended for use as an internal standard for the quantification of bromocriptine (Item No. 14598) 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).

Bromocriptine-^{13}C-d$_3$ is supplied as a solid. A stock solution may be made by dissolving the bromocriptine-^{13}C-d$_3$ in the solvent of choice, which should be purged with an inert gas. Bromocriptine-^{13}C-d$_3$ is soluble in the organic solvent chloroform.

Description

Bromocriptine is a dopamine receptor agonist (K_is = 1,659, 12.2, 12.2, 59.7, and 1,691 nM for dopamine D_1, D_2, D_3, D_4, and D_5 receptors, respectively).[1] It also binds to the serotonin (5-HT) receptor subtypes 5-HT$_{1A}$ and 5-HT$_{1D}$ (K_is = 12.9 and 10.7 nM, respectively), as well as α_1-adrenergic receptors (K_is = 1.12-4.17 nM).[1,2] Bromocriptine (5 mg/kg) restores locomotor activity, without inducing dyskinesia, in a macaque model of Parkinson's disease induced by MPTP.[3] Formulations containing bromocriptine have been used in the treatment of Parkinson's disease, hyperprolactinemia-associated dysfunctions, and acromegaly.

References

1. Kvernmo, T., Härtter, S., and Bürger, E. A review of the receptor-binding and pharmacokinetic properties of dopamine agonists. *Clin. Ther.* **28(8)**, 1065-1078 (2006).
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. Rouillard, C., Bédard, P.J., and De Paolo, T. Effects of chronic treatment of MPTP monkeys with bromocriptine alone or in combination with SKF 38393. *Eur. J. Pharmacol.* **185(2-3)**, 209-215 (1990).

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