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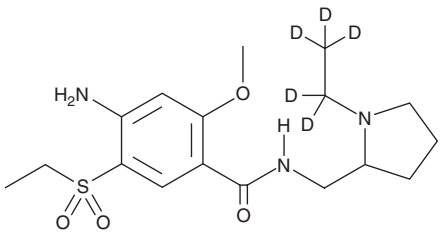
PRODUCT INFORMATION

Amisulpride-d_5

Item No. 30075

CAS Registry No.: 1216626-17-3
Formal Name: 4-amino-N-[[1-(ethyl-1,1,2,2,2-d_5)-2-pyrrolidinyl]methyl]-5-(ethylsulfonyl)-2-methoxy-benzamide
MF: $C_{17}H_{22}D_5N_3O_4S$
FW: 374.5
Chemical Purity: ≥95% (Amisulpride)
Deuterium Incorporation: ≥99% deuterated forms (d_1-d_5); ≤1% d_0
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

Amisulpride-d_5 is intended for use as an internal standard for the quantification of amisulpride (Item No. 14619) 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).

Amisulpride-d_5 is supplied as a solid. A stock solution may be made by dissolving the amisulpride-d_5 in the solvent of choice, which should be purged with an inert gas. Amisulpride-d_5 is slightly soluble in chloroform and methanol.

Description

Amisulpride is a dopamine D_2 and D_3 receptor antagonist (K_is = 3 and 3.5 nM, respectively).[1] It is also an antagonist of the serotonin (5-HT) receptor subtypes 5-HT_{2B}, 5-HT_7, and 5-HT_{7A} (K_is = 13, 11.5, and 135.5 nM, respectively). It is selective for these receptors over a panel of 39 additional receptors, ion channels, and transporters (K_is = >1,000 nM for all). Amisulpride increases 7-OH-DPAT-induced decreases in dopamine and acetylcholine release in electrically stimulated rat striatal slices (EC_{50}s = 2.2 and 1.2 nM, respectively).[2] It increases the levels of dopamine and the dopamine metabolite 3,4-dihydroxyphenylacetic acid (DOPAC) in rat striatum and nucleus accumbens when administered intraperitoneally at a dose of 10 mg/kg. Amisulpride decreases immobility time in the forced swim test in rats, as well as reduces stress-induced decreases in sucrose consumption in a rat model of depression induced by chronic mild stress.[3]

References

1. Abbas, A.I., Hedlund, P.B., Huang, X.P., *et al.* Amisulpride is a potent 5-HT_7 antagonist: Relevance for antidepressant actions in vivo. *Psychopharmacology (Berl.)* **205(1)**, 119-128 (2009).
2. Schoemaker, H., Claustre, Y., Fage, D., *et al.* Neurochemical characteristics of amisulpride, an atypical dopamine D_2/D_3 receptor antagonist with both presynaptic and limbic selectivity. *J. Pharmacol. Exp. Ther.* **280(1)**, 83-97 (1997).
3. Papp, M. and Wieronska, J. Antidepressant-like activity of amisulpride in two animal models of depression. *J. Psychopharmacol.* **14(1)**, 46-52 (2000).

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