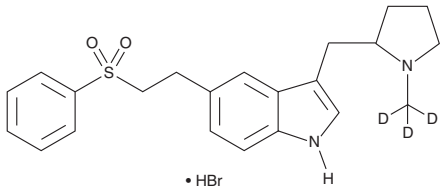
PRODUCT INFORMATION

rac-Eletriptan-d_3 (hydrobromide)

Item No. 25418

Formal Name:	3-((1-(methyl-d_3)pyrrolidin-2-yl)methyl)-5-(2-(phenylsulfonyl)ethyl)-1H-indole, monohydrobromide
MF:	$C_{22}H_{23}D_3N_2O_2S \bullet HBr$
FW:	466.5
Chemical Purity:	≥95% (Eletriptan)
Deuterium Incorporation:	≥99% deuterated forms (d_1-d_3); ≤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

rac-Eletriptan-d_3 (hydrobromide) is intended for use as an internal standard for the quantification of eletriptan (Item No. 20048) 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).

rac-Eletriptan-d_3 (hydrobromide) is supplied as a solid. A stock solution may be made by dissolving the *rac*-eletriptan-d_3 (hydrobromide) in the solvent of choice, which should be purged with an inert gas. *rac*-Eletriptan-d_3 (hydrobromide) is soluble in DMSO.

Description

Eletriptan is an agonist of the serotonin (5-HT) receptor types 5-HT_{1B} and 5-HT_{1D}.[1] It inhibits forskolin-induced cAMP accumulation in and induces vasoconstriction of isolated rabbit common carotid artery rings (pD_2s = 7.6 and 4.9, respectively), an effect that can be blocked by the 5-HT_{1B} antagonist SB216641 but not the 5-HT_{1D} antagonist BRL15572. Eletriptan preferentially induces constriction of isolated human cerebral over coronary arteries (EC_{50}s = 15.8 and 1,995 nM, respectively).[2] Formulations containing eletriptan have been used in the treatment of migraine headache.

References

1. Akin, D., Onaran, H.O., and Gudal, H. Agonist-directed trafficking explaining the difference between response pattern of naratriptan and sumatriptan in rabbit common carotid artery. *Br. J. Pharmacol.* **136(2)**, 171-176 (2002).
2. Edvinsson, L., Uddman, E., Wackenfors, A., *et al*. Triptan-induced contractile (5-HT_{1B} receptor) responses in human cerebral and coronary arteries: Relationship to clinical effect. *Clin. Sci. (Lond.)* **109(3)**, 335-342 (2005).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM