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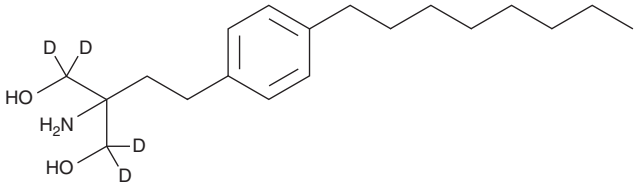
PRODUCT INFORMATION

Fingolimod-d_4

Item No. 25037

CAS Registry No.:	1346747-38-3
Formal Name:	2-amino-2-(4-octylphenethyl)propane-1,1,3,3-d_4-1,3-diol
MF:	$C_{19}H_{29}D_4NO_2$
FW:	311.5
Chemical Purity:	≥98% (Fingolimod)
Deuterium Incorporation:	≥99% deuterated forms (d_1-d_4); ≤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

Fingolimod-d_4 is intended for use as an internal standard for the quantification of fingolimod (Item Nos. 11975 | 10006292) 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).

Fingolimod-d_4 is supplied as a solid. A stock solution may be made by dissolving the fingolimod-d_4 in the solvent of choice. Fingolimod-d_4 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of fingolimod-d_4 in these solvents is approximately 5, 10, and 20 mg/ml, respectively.

Description

Fingolimod is a derivative of ISP-1 (myriocin), a fungal metabolite of the Chinese herb *I. sinclarii* as well as a structural analog of sphingosine. It is a novel immune modulator that prolongs allograft transplant survival in numerous models by inhibiting lymphocyte emigration from lymphoid organs.[1] Fingolimod is phosphorylated by sphingosine kinase, which then acts as a potent agonist at four of the sphingosine-1-phosphate (S1P) receptors ($S1P_1$, $S1P_3$, $S1P_4$, and $S1P_5$).[2] Down-regulation of $S1P_1$ receptors on T and B lymphocytes by fingolimod results in defective egress of these cells from spleen, lymph nodes, and Peyer's patch.[3] Fingolimod also enhances the activity of the sphingosine transporter Abcb1 and the leukotriene C_4 transporter Abcc1 and inhibits cytosolic phospholipase A_2 activity.[4,5]

References

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3. Matloubian, M., Lo, C.G., Cinamon, G., *et al. Nature* **427(6972)**, 355-360 (2004).
4. Honig, S.M., Fu, S., Mao, X., *et al. J. Clin. Invest.* **111(5)**, 627-637 (2003).
5. Payne, S.G., Oskeritizian, C.A., Griffiths, R., *et al. Blood* **109(3)**, 1077-1085 (2007).

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