

Cat. No.: GC47821

Cas. No. 2749980-90-1

SMILES O=C(NCCC1=CN[C@H]2C(C(=O)CC1)=CC([H])([H])C([H])([H])C([H])([H])C([H])([H])C([H])([H])C([H])([H])C([H])([H])C([H])([H])[H]

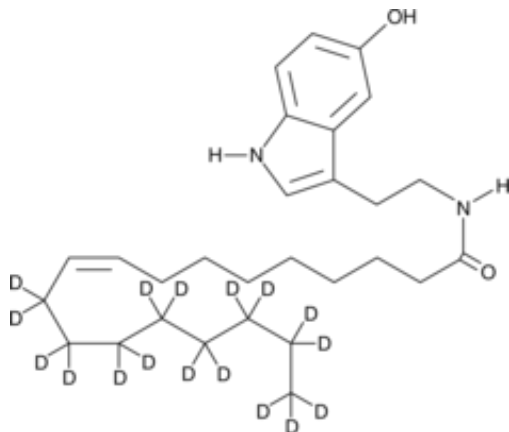
Formula	C28H27D17N2O2	M.Wt	457.8
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Solubility	DMF: 30 mg/ml,DMSO: 15 mg/ml,Ethanol: 30 mg/ml,PBS (pH 7.2): 0.25 mg/ml	Storage	Store at -20°C
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General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
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Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.
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Structure



Oleoyl serotonin-d₁₇ contains 17 deuterium atoms at the 11, 11', 12, 12', 13, 13', 14, 14', 15, 15', 16, 16', 17, 17', 18, 18, and 18 positions. It is intended for use as an internal standard for the

Caution: Product has not been fully validated for medical applications. For research use only.

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Product Data Sheet

quantification of oleoyl serotonin by GC- or LC-mass spectrometry. Oleoyl serotonin is a hybrid molecule patterned after arachidonoyl serotonin. Arachidonoyl serotonin is a dual antagonist of fatty acid amide hydrolase (FAAH) and the transient receptor potential vanilloid-type 1 (TRPV1) channel, reducing both acute and chronic peripheral pain.^{1,2} Oleoyl Serotonin inhibits capsaicin-induced TRPV1 channel activation ($IC_{50} = 2.57 \mu M$) without blocking FAAH-mediated hydrolysis of arachidonoyl ethanolamine ($IC_{50} > 50 \mu M$).¹

1.Ortar, G., Cascio, M.G., De Petrocellis, L., et al.New N-arachidonoylserotonin analogues with potential "dual" mechanism of action against painJournal of Medicinal Chemistry506554-6569(2007)

2.Maione, S., De Petrocellis, L., de Novellis, V., et al.Analgesic actions of N-arachidonoyl-serotonin, a fatty acid amide hydrolase inhibitor with antagonistic activity at vanilloid TRPV1 receptorsBritish Journal of Pharmacology150766-781(2007)

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