

Product Data Sheet

Product Name: FPT
Cat. No.: GC73914

Chemical Properties

Cas. No. 2048491-06-9

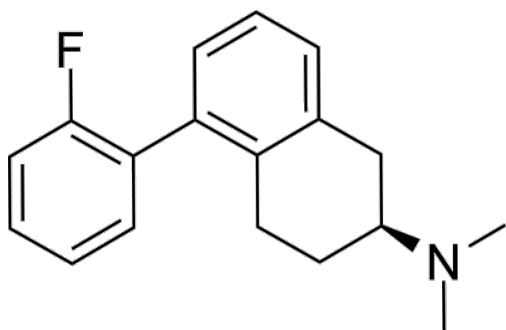
Formula $C_{18}H_{20}FN$ M.Wt 269.36

Solubility DMSO : 66.67 mg/mL (247.51 mM; Storage 4°C, protect from light
Need ultrasonic)

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.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

FPT, a 2-Aminotetralin, is an efficacious partial agonist at 5-HT_{1A}R, a full agonist at 5-HT_{1B}R and 5-

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

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HT1DR with EC50s of 39.3 nM, 1.2 nM, 0.5 nM, respectively. FPT is a weak agonist at 5-HT7R. FPT shows in vivo efficacy as an antiepileptic in Fmr1 knockout mice and has anxiolytic-like and prosocial effects in Fmr1 knockout mice and other mouse models.

References:

[1]. Tanishka S Saraf, et al. FPT, a 2-Aminotetralin, Is a Potent Serotonin 5-HT1A, 5-HT1B, and 5-HT1D Receptor Agonist That Modulates Cortical Electroencephalogram Activity in Adult Fmr1 Knockout Mice. ACS Chem Neurosci. 2022 Dec 21;13(24):3629-3640.

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