

Product Name: EPPTB

Catalog No.: 4518

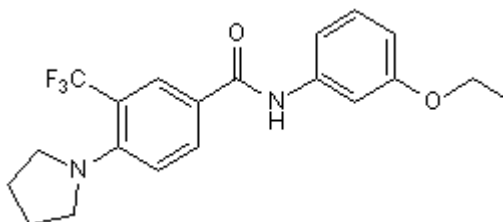
Batch No.: 1

CAS Number: 1110781-88-8

IUPAC Name: *N*-(3-Ethoxyphenyl)-4-(1-pyrrolidiny)-3-(trifluoromethyl)benzamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₂₁F₃N₂O₂
Batch Molecular Weight: 378.39
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.2 (Ethyl acetate:Petroleum ether [4:1])
HPLC: Shows >99.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	63.48	5.59	7.4
Found	63.37	5.53	7.44

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Trace amine 1 (TA₁) receptor antagonist/inverse agonist; exhibits a higher potency at the mouse TA₁ receptor than the rat and human TA₁ receptors (IC₅₀ values are 27.5, 4539 and 7487 nM, respectively). Blocks the TA₁ receptor-mediated activation of an inwardly rectifying K⁺ current, which increases the firing frequency of dopamine (DA) neurons in the ventral tegmental area. Increases DA potency at the D₂ receptor. Also displays inverse agonism, reducing basal cAMP levels in vitro (IC₅₀ = 19 nM).

Physical and Chemical Properties:

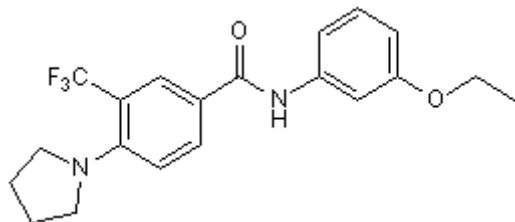
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Batch Molecular Weight: 378.39

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Bradaia et al (2009) The selective antagonist EPPTB reveals TAAR1-mediated regulatory mechanisms in dopaminergic neurons of the mesolimbic system. *Proc.Natl.Acad.Sci.U.S.A.* **106** 20081. PMID: 19892733.

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