

**Product Name:** EPPTB

**Catalog No.:** 4518

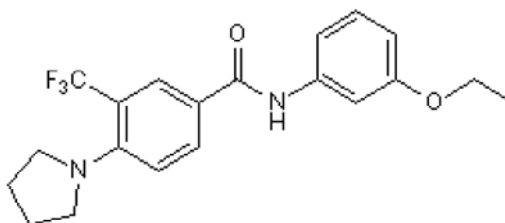
**Batch No.:** 1

CAS Number: 1110781-88-8

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

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>20</sub>H<sub>21</sub>F<sub>3</sub>N<sub>2</sub>O<sub>2</sub>  
**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<sub>f</sub> = 0.2 (Ethyl acetate:Petroleum ether [4:1])  
**HPLC:** Shows 99.9% purity  
**<sup>1</sup>H 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

**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors

Tel:+1 612 379 2956

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**Description:**

Trace amine 1 (TA<sub>1</sub>) receptor antagonist/inverse agonist; exhibits a higher potency at the mouse TA<sub>1</sub> receptor than the rat and human TA<sub>1</sub> receptors (IC<sub>50</sub> values are 27.5, 4539 and 7487 nM, respectively). Blocks the TA<sub>1</sub> receptor-mediated activation of an inwardly rectifying K<sup>+</sup> current, which increases the firing frequency of dopamine (DA) neurons in the ventral tegmental area. Increases DA potency at the D<sub>2</sub> receptor. Also displays inverse agonism, reducing basal cAMP levels in vitro (IC<sub>50</sub> = 19 nM).

**Physical and Chemical Properties:**

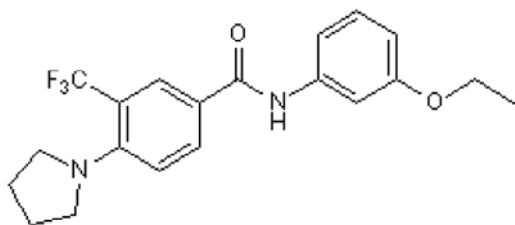
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Batch Molecular Weight: 378.39

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 DArgic neurons of the mesolimbic system. *Proc.Natl.Acad.Sci.U.S.A.* **106** 20081. PMID: 19892733.

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