

**Product Name:** BETP

**Catalog No.:** 4778

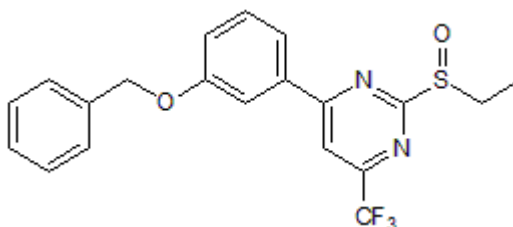
**Batch No.:** 1

**CAS Number:** 1371569-69-5

**IUPAC Name:** 2-(Ethylsulfinyl)-4-[3-(phenylmethoxy)phenyl]-6-(trifluoromethyl)pyrimidine

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>20</sub>H<sub>17</sub>F<sub>3</sub>N<sub>2</sub>O<sub>2</sub>S  
**Batch Molecular Weight:** 406.42  
**Physical Appearance:** White powder  
**Solubility:** DMSO to 100 mM  
 ethanol to 50 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.41 (Ethyl acetate:Petroleum ether [1:1])  
**HPLC:** Shows 100% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon Hydrogen Nitrogen		
Theoretical	59.11	4.22	6.89
Found	59	4.25	6.97

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

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**IUPAC Name:** 2-(Ethylsulfinyl)-4-[3-(phenylmethoxy)phenyl]-6-(trifluoromethyl)pyrimidine

**Description:**

Selective positive allosteric modulator and partial agonist of the glucagon-like peptide 1 (GLP-1) receptor. Increases binding affinity of oxyntomodulin for the GLP-1 receptor. Potentiates oxyntomodulin-mediated GLP-1 receptor signaling in vitro and insulin secretion in vivo. Has no effect on GLP-2, GIP, PTH or glucagon receptors.

**Physical and Chemical Properties:**

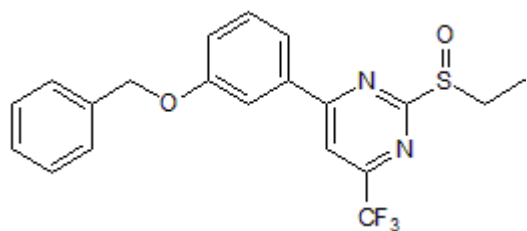
Batch Molecular Formula: C<sub>20</sub>H<sub>17</sub>F<sub>3</sub>N<sub>2</sub>O<sub>2</sub>S

Batch Molecular Weight: 406.42

Physical Appearance: White powder

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 100 mM

ethanol to 50 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:**

**Sloop *et al*** (2010) Novel small molecule glucagon-like peptide-1 receptor agonist stimulates insulin secretion in rodents and from human islets. *Diabetes* **59** 3099. PMID: 20823098.

**Cheong *et al*** (2012) Two small molecule agonists of glucagon-like peptide-1 receptor modulate the receptor activation response differently. *Biochem.Biophys.Res.Comm.* **417** 558. PMID: 22177947.

**Willard *et al*** (2012) Small molecule allosteric modulation of the glucagon-like Peptide-1 receptor enhances the insulinotropic effect of oxyntomodulin. *Mol.Pharmacol.* **82** 1066. PMID: 22930710.

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