

Certificate of Analysis

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: C₂₀H₁₇F₃N₂O₂S

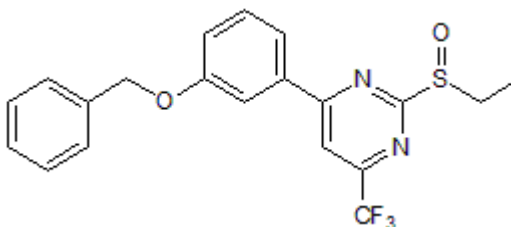
Batch Molecular Weight: 406.42

Physical Appearance: White solid

Solubility: DMSO to 100 mM
ethanol to 50 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.41 (Ethyl acetate:Petroleum ether [1:1])

HPLC: Shows 100% purity

¹H 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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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:

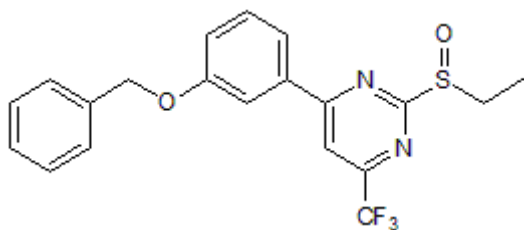
Batch Molecular Formula: C₂₀H₁₇F₃N₂O₂S

Batch Molecular Weight: 406.42

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



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.

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.

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