

**Product Name:** PSB CB5

**Catalog No.:** 6372

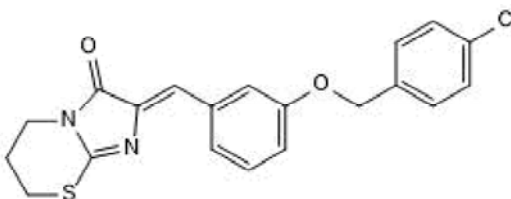
**Batch No.:** 1

CAS Number: 1627710-30-8

IUPAC Name: (2Z)-2[[3-[(4-Chlorophenyl)methoxy]phenyl]methylene]-6,7-dihydro-5H-imidazo[2,1-b][1,3]thiazin-3(2H)-one

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>20</sub>H<sub>17</sub>ClN<sub>2</sub>O<sub>2</sub>S  
**Batch Molecular Weight:** 384.88  
**Physical Appearance:** Yellow solid  
**Solubility:** DMSO to 20 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**HPLC:** Shows 99.9% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	62.41	4.45	7.28
Found	62.17	4.41	7.4

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

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**Description:**

Selective GPR18 antagonist (IC<sub>50</sub> = 0.279 μM). Exhibits >36-fold selectivity versus CB<sub>1</sub> and GPR55 and 14-fold selectivity versus CB<sub>2</sub> receptors. Inhibits N-Arachidonylglycine (Cat. No. 1445) induced acrosomal exocytosis in human spermatozoa.

**Physical and Chemical Properties:**

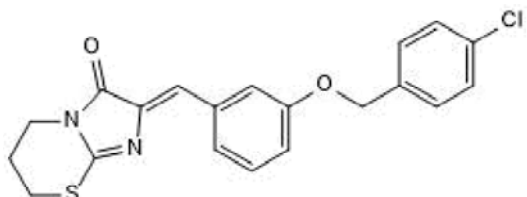
Batch Molecular Formula: C<sub>20</sub>H<sub>17</sub>ClN<sub>2</sub>O<sub>2</sub>S

Batch Molecular Weight: 384.88

Physical Appearance: Yellow solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 20 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:**

**Flegel et al** (2016) Characterization of non-olfactory GPCRs in human sperm with a focus on GPR18. *Sci.Rep.* **6** 32255. PMID: 27572937.

**Rempel et al** (2014) Bicyclic imidazole-4-one derivatives: a new class of antagonists for the orphan G protein-coupled receptors GPR18 and GPR55. *Med.Chem.Comm.* **5** 632.

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