

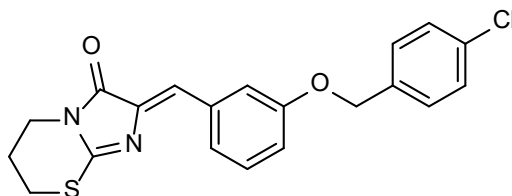
Catalog # 10-5062

PSB-CB5

CAS# 1627710-30-8

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

Lot # S105204



A potent and selective GPR18 antagonist ($IC_{50} = 0.279 \mu M$) exhibiting >36-fold selectivity against GPR55 and CB1 and 14-fold selectivity against CB2.¹ Inhibits N-arachidonylglycine-induced acrosomal exocytosis in human spermatozoa indicating that GPR18 may be involved in physiological processes of human spermatozoa.²

- 1) 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
- 2) Flegel *et al.* (2016), *Characterization of Non-Olfactory GPCRs in Human Sperm With a Focus on GPR18*; *Sci. Rep.*, **6** 32255

PHYSICAL DATA

Molecular Weight: 384.88
Molecular Formula: $C_{20}H_{17}ClN_2O_2S$
Purity: 98% by TLC
NMR: (Conforms)
Solubility: DMSO (up to 25 mg/ml)
Physical Description: Pale-yellow solid
Storage and Stability: Store as supplied desiccated at $-20^{\circ}C$ for up to 1 year from the date of purchase. Solutions in DMSO may be stored at $-20^{\circ}C$ for up to 3 months.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

www.focusbiomolecules.com