
Product Data Sheet

Product Name: PSB CB5
Cat. No.: GC50435

Chemical Properties

Cas. No. 1627710-30-8

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

SMILES O=C(N1C(SCCC1)=N/2)C2=C\C3=CC(OCC4=CC=C(Cl)C=C4)=CC=C3

Formula $C_{20}H_{17}ClN_2O_2S$ M.Wt 384.88

Solubility 7.7mg/ml in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

Background

Selective GPR18 antagonist ($IC_{50} = 0.279 \mu M$). Exhibits >36-fold selectivity versus CB1 and GPR55 and 14-fold selectivity versus CB2 receptors. Inhibits N-Arachidonylglycine induced acrosomal exocytosis in human spermatozoa.

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

Caution: Product has not been fully validated for medical applications. For research use only.

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