

Product Data Sheet

Product Name: PSB-KD107

Cat. No.: GC48004

Chemical Properties

Cas. No. 955121-65-0

SMILES O=C1C2=C(N(C)C(N1C)=O)N=C3N2CCCN3CCC4=CNC5=C4C=CC=C5

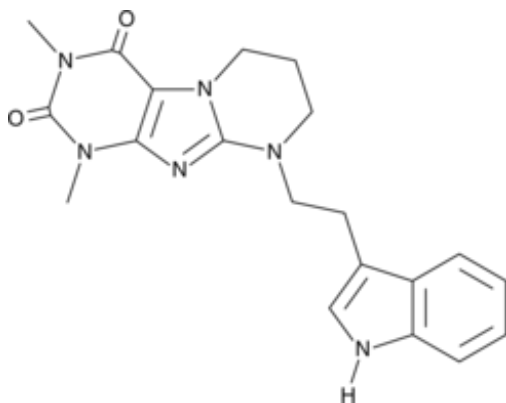
Formula C₂₀H₂₂N₆O₂ M.Wt 378.4

Solubility DMF: 2 mg/ml, DMSO: 2 mg/ml, DMSO:PBS (pH 7.2) (1:4): 0.2 mg/ml
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

PSB-KD107 is an agonist of the orphan G protein-coupled receptor GPR18 (EC₅₀ = 0.56 μM in a β-arrestin recruitment assay using CHO cells expressing the human receptor).^{1,2} It is selective for GPR18 over GPR55, as well as cannabinoid (CB) receptor 1 (CB₁) and CB₂, at 10 μM but also binds to the adenosine A_{2A} receptor (K_i = 0.33 μM for the rat receptor).^{1,3}

1. Schoeder, C.T., Kaleta, M., Mahardhika, A.B., et al. Structure-activity relationships of

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

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imidazothiazinones and analogs as antagonists of the cannabinoid-activated orphan G protein-coupled receptor GPR18 Eur. J. Med. Chem. 155381-397(2018) 2.Schoeder, C.T., Mahardhika, A.B., Drabczyńska, A., et al. Discovery of tricyclic xanthines as agonists of the cannabinoid-activated orphan G protein-coupled receptor GPR18 ACS Med. Chem. Lett. (2020) 3. Drabczyńska, A., Müller, C.E., Schiedel, A., et al. Phenylethyl-substituted pyrimido[2,1-f]purinediones and related compounds: Structure-activity relationships as adenosine A1 and A2A receptor ligands Bioorg. Med. Chem. 15(22)6956-6974(2007)

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