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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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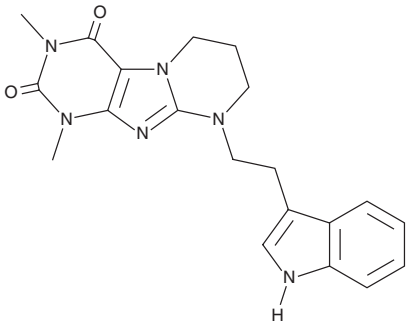
PRODUCT INFORMATION

PSB-KD107

Item No. 31393

CAS Registry No.:	955121-65-0
Formal Name:	6,7,8,9-tetrahydro-9-[2-(1H-indol-3-yl)ethyl]-1,3-dimethyl-pyrimido[2,1-f]purine-2,4(1H,3H)-dione
MF:	$C_{20}H_{22}N_6O_2$
FW:	378.4
Purity:	≥98%
UV/Vis.:	λ_{max}: 222, 302 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

PSB-KD107 is supplied as a crystalline solid. A stock solution may be made by dissolving the PSB-KD107 in the solvent of choice, which should be purged with an inert gas. PSB-KD107 is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of PSB-KD107 in these solvents is approximately 2 mg/ml.

PSB-KD107 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, PSB-KD107 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. PSB-KD107 has a solubility of approximately 0.2 mg/ml in a 1:4 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

PSB-KD107 is an agonist of the orphan G protein-coupled receptor GPR18 (EC_{50} = 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 1 (CB_1) and CB_2 receptors, at 10 µM but also binds to the adenosine A_{2A} receptor (K_i = 0.33 µM for the rat receptor).[1,3]

References

1. Schoeder, C.T., Kaleta, M., Mahardhika, A.B. *et al.* Structure-activity relationships of imidazothiazinones and analogs as antagonists of the cannabinoid-activated orphan G protein-coupled receptor GPR18. *Eur. J. Med. Chem.* **155**, 381-397 (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 A_1 and A_{2A} receptor ligands. *Bioorg. Med. Chem.* **15(22)**, 6956-6974 (2007).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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