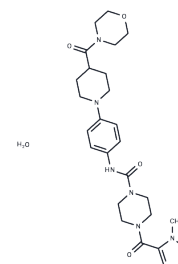


TAS 205

Chemical Properties

CAS No. : 1584160-52-0
 Formula: C₂₇H₃₈N₆O₅
 Molecular Weight: 526.638
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
 Actual storage temperature shall be subject to the COA.



Biological Description

Description	TAS 205 is an inhibitor of hematopoietic prostaglandin D synthase (H-PGDS; IC ₅₀ = 55.8 nM). It is selective for H-PGDS over lipocalin-type PGDS (L-PGDS) at 100 μM, as well as over enzyme and receptor panels at 10 μM. TAS 205 inhibits production of prostaglandin D ₂ induced by A23187 in KU812 human and RBL-2H3 rat basophils with IC ₅₀ values of 78.3 and 181.3 nM, respectively. It inhibits ovalbumin-induced nasal lavage fluid eosinophil infiltration and late-phase nasal obstruction in an ovalbumin-sensitized guinea pig model of allergic rhinitis when administered at a dose of 30 mg/kg.
Targets(IC ₅₀)	Others, Prostaglandin Receptor

Solubility Information

Solubility	DMSO: 30 mg/mL (56.97 mM), Sonication is recommended. DMF: 30 mg/mL (56.97 mM), Sonication is recommended. Ethanol: 30 mg/mL (56.97 mM), Sonication is recommended. Ethanol:PBS (pH 7.2) (1:4): 0.2 mg/mL (0.38 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8988 mL	9.4942 mL	18.9883 mL
5 mM	0.3798 mL	1.8988 mL	3.7977 mL
10 mM	0.1899 mL	0.9494 mL	1.8988 mL
50 mM	0.038 mL	0.1899 mL	0.3798 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Aoyagi, H., Kajiwara, D., Tsunekuni, K., et al. Potential synergistic effects of novel hematopoietic prostaglandin D synthase inhibitor TAS-205 and different types of anti-allergic medicine on nasal obstruction in a Guinea pig model of experimental allergic rhinitis *Eur. J. Pharmacol.* 875:173030(2020)

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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