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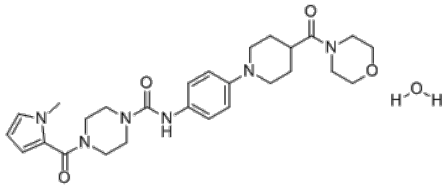
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	TAS-205 monohydrate
Cat. No.	:	PC-49641
CAS No.	:	1584160-52-0
Molecular Formula	:	$C_{27}H_{38}N_6O_5$
Molecular Weight	:	526.64
Target	:	PGE synthase
Solubility	:	10 mM in DMSO



Biological Activity

TAS-205 (Pizuglanstat) monohydrate is a potent, specific hematopoietic prostaglandin D synthase (**H-PGDS**) inhibitor with IC50 of 55.8 nM, does not inhibit LPGDS at 100 uM.
TAS-205 did not affect the activities of 174 enzymes, including 10 arachidonic acid-related enzymes such as cyclooxygenase (COX)-1, COX-2, and LTC4 synthase or the binding of 164 receptors.
TAS-205 inhibited PGD2 increase of calcium ionophore A23187-stimulated rat basophilic RBL-2H3 cells and human basophilic KU812 cells with IC50 of 181.3 nM and 78.3 nM, respectively, TAS-205 inhibited PGD2 production induced by the cross-linking of IgE on RBL-2H3 cells with IC50 of 238.4 nM.
TAS-205 (30 mg/kg, p.o.) suppressed late phase nasal obstruction in our guinea pig model, TAS-205 alone and in combination with montelukast showed inhibitory effects on eosinophil infiltration into the nasal cavity.

References

Aoyagi H, et al. ***Eur J Pharmacol***. 2020 May 15;875:173030.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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