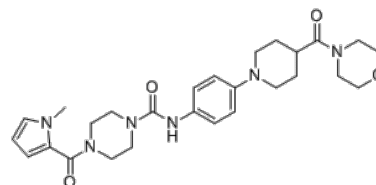


Product Name : Pizuglanstat
Cat. No. : PC-36096
CAS No. : 1244967-98-3
Molecular Formula : C₂₇H₃₆N₆O₄
Molecular Weight : 508.623
Target : PGE synthase
Solubility : 10 mM in DMSO



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

Biological Activity

TAS-205 (Pizuglanstat, TAS205) 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

