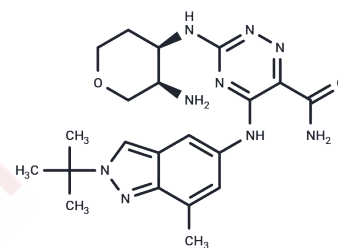


TAS05567

Chemical Properties

CAS No. : 1429038-15-2
 Formula: C₂₁H₂₉N₉O₂
 Molecular Weight: 439.51
 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	TAS05567 is a potent, highly selective, and ATP-competitive Syk inhibitor (IC ₅₀ : 0.37 nM), showing >70% inhibition of Syk and four other kinases [FLT3 (IC ₅₀ : 10 nM), JAK2 (IC ₅₀ : 4.8 nM), KDR (IC ₅₀ : 600 nM), RET (IC ₅₀ : 29 nM)] in a panel of 192 kinases.
Targets(IC ₅₀)	FLT,c-RET,Syk,JAK
In vitro	TAS05567 inhibits PLCγ2 (IC ₅₀ : 23 nM) and Erk1/2 (IC ₅₀ : 9.8 nM), after stimulation of Ramos cells with anti-IgM. TAS05567 inhibits the formation of mature osteoclasts in a concentration-dependent manner, and osteoclast differentiation is completely suppressed at 30 nM. TAS05567 suppresses both calcium flux (IC ₅₀ : 27 nM) and histamine release (IC ₅₀ : 13 nM) induced by cross-linking of FcεRI with IgE and antigen. TAS05567 shows concentration-dependent inhibition of TNF-α production by THP-1 cells stimulated with IgG. When Ramos cells are pretreated with TAS05567 prior to BCR cross-linking by exposure to anti-IgM, there is marked inhibition of the phosphorylation of BLNK. The IC ₅₀ of TAS05567 for suppressing the induction of BLNK phosphorylation by anti-IgM is 1.8 nM [1].
In vivo	TAS05567 (10-30 mg/kg; p.o.; daily; for 9 days; female BALB/c mice) treatment inhibits hind-paw swelling dose-dependently, and significantly reduces serum MMP-3 levels at both 10 mg/kg and 30 mg/kg compared to the vehicle group [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2753 mL	11.3763 mL	22.7526 mL
5 mM	0.4551 mL	2.2753 mL	4.5505 mL
10 mM	0.2275 mL	1.1376 mL	2.2753 mL
50 mM	0.0455 mL	0.2275 mL	0.4551 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

Hayashi H, et al. TAS05567, a Novel Potent and Selective Spleen Tyrosine Kinase Inhibitor, Abrogates Immunoglobulin-Mediated Autoimmune and Allergic Reactions in Rodent Models. *J Pharmacol Exp Ther.* 2018 Jul; 366(1):84-95.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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