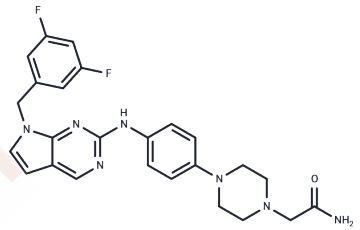
Data Sheet (Cat.No.T9043)

TargetMol

AS1810722

Chemical Properties



CAS No. : 909561-15-5

Formula: C25H25F2N7O

Molecular Weight: 477.51

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	AS1810722, a fused bicyclic pyrimidine derivative, is an orally active and potent inhibitor of STAT6, demonstrating an IC50 of 1.9 nM. It exhibits effective inhibition of CYP3A4, positioning it as a promising candidate for research into allergic diseases, including asthma and atopic conditions.
Targets(IC50)	STAT,Cytochromes P450
In vitro	AS1810722 showed potent STAT6 inhibition and a good CYP3A4 inhibition profile.? AS1810722 also inhibited in vitro Th2 differentiation without affecting type 1 helper T (Th1) cell differentiation and eosinophil infiltration in an antigen-induced mouse asthmatic model after oral administration.

Solubility Information

Solubility	DMSO: 62.5 mg/mL (130.89 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0942 mL	10.471 mL	20.942 mL
5 mM	0.4188 mL	2.0942 mL	4.1884 mL
10 mM	0.2094 mL	1.0471 mL	2.0942 mL
50 mM	0.0419 mL	0.2094 mL	0.4188 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

Nagashima S , Hondo T , Nagata H , et al. Novel 7H-pyrrolo[2,3-d]pyrimidine derivatives as potent and orally active STAT6 inhibitors[J]. Bioorg Med Chem, 2009, 17(19):6926-6936.

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