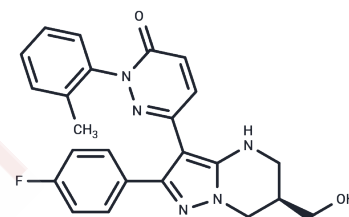


AS1940477

## Chemical Properties

CAS No. : 928344-12-1  
 Formula: C<sub>24</sub>H<sub>22</sub>FN<sub>5</sub>O<sub>2</sub>  
 Molecular Weight: 431.46  
 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	AS1940477 is p38 MAPK inhibitor. AS1940477 inhibited the enzymatic activity of recombinant p38 $\alpha$ and $\beta$ isoforms but showed no effect against other 100 protein kinases including p38 $\gamma$ and $\delta$ isoforms. In human peripheral blood mononuclear cells, AS1940477 inhibited lipopolysaccharide (LPS)- or phytohemagglutinin A (PHA)-induced production of proinflammatory cytokines, including TNF $\alpha$ , IL-1 $\beta$ , and IL-6 at low concentrations (LPS/TNF $\alpha$ , IC(50)=0.45n M; PHA/TNF $\alpha$ , IC(50)=0.40 nM). In addition, equivalent concentrations of AS1940477 that inhibited cytokine production also inhibited TNF $\alpha$ - and IL-1 $\beta$ -induced production of IL-6, PGE(2), and MMP-3 in human synovial stromal cells. AS1940477 was also found to potently inhibit TNF production in whole blood (IC(50)=12 nM) and effectively inhibited TNF $\alpha$ production induced by systemically administered LPS in rats at less than 0.1mg/kg (ED(50)=0.053 mg/kg) with an anti-inflammatory effect lasting for 20h after oral administration. Overall, this stu.....
Targets(IC50)	Others

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3177 mL	11.5886 mL	23.1771 mL
5 mM	0.4635 mL	2.3177 mL	4.6354 mL
10 mM	0.2318 mL	1.1589 mL	2.3177 mL
50 mM	0.0464 mL	0.2318 mL	0.4635 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.

**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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