

Product Name: LY2228820 Revision Date: 01/10/2020

# **Product Data Sheet**

### LY2228820

**Cat. No.:** A5566

CAS No.: 862507-23-1

Formula: C24H29FN6·2CH4O3S

**M.Wt:** 612.74

Synonyms:

In Vitro

Target: MAPK Signaling

Pathway: p38

Storage: Store at -20°C



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# Solvent & Solubility

 $\geqslant$ 30.65mg/mL in DMSO,  $\geqslant$ 9.9 mg/mL in EtOH with ultrasonic,  $\geqslant$ 45 mg/mL in H2O with ultrasonic

	Preparing	Mass			
		Solvent	1mg	5mg	10mg
		Concentration			
	Stock Solutions	1 mM	1.6320 mL	8.1601 mL	16.3201 mL
		5 mM	0.3264 mL	1.6320 mL	3.2640 mL
	-10	10 mM	0.1632 mL	0.8160 mL	1.6320 mL

Please refer to the solubility information to select the appropriate solvent.

# **Biological Activity**

Shortsummary	P38 MAP kinase inhibitor	
IC <sub>50</sub> & Target	7 nM (p38α)	
	Cell Viability Assay	
	Cell Line:	HeLa cells
In Vitro	Preparation method:	The solubility of this compound in DMSO is > 30.7 mg/mL. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20 °C for several months.
	Reacting conditions:	9.8 nM-10 μM, 1 h
	Applications:	LY2228820 is a potent and selective inhibitor of the $\alpha$ - and $\beta$ -isoforms of p38
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		MAPK with IC50 values of 5.3 and 3.2 nmol/L, respectively. In anisomycin-stimulated HeLa cells, LY2228820 efficiently inhibited		
		phosphorylation of p38α MAPK substrate, MK2 (Thr334). LY2228820 also		
		decreased TNF- $\alpha$ secretion induced by LPS/IFN- $\gamma$ in mouse peritoneal		
		macrophages.		
	Animal experiment	- Inform		
	Animal models:	Athymic nude female mice		
	Dosage form:	Oral administration, 20 and 40 mg/kg, three times daily		
	Applications:	LY2228820 reduced hemoglobin content in athymic nude mice. LY2228820		
In Vivo		treatment resulted in a significant reduction of VEGF-A-stimulated		
III VIVO		vascularization in an ear angiogenesis model, indicating LY2228820 treatment		
		impaired neoangiogenesis.		
	Other notes: Please test the solubility of all compounds indoor, and the actual			
		slightly differ with the theoretical value. This is caused by an experimental		
	40.	system error and it is normal.		

# **Product Citations**

1.Jaco I, Annibaldi A,et al. "MK2 Phosphorylates RIPK1 to Prevent TNF-Induced Cell Death." MolCell. 2017 Jun 1;66(5):698-710.e5.PMID:28506461

See more customer validations on www.apexbt.com.

#### References

- [1]. Campbell R M, Anderson B D, Brooks N A, et al. Characterization of LY2228820 dimesylate, a potent and selective inhibitor of p38 MAPK with antitumor activity[J]. Molecular cancer therapeutics, 2014, 13(2): 364-374.
- [2]. Tate C M, Blosser W, Wyss L, et al. LY2228820 dimesylate, a selective inhibitor of p38 mitogen-activated protein kinase, reduces angiogenic endothelial cord formation in vitro and in vivo[J]. Journal of Biological Chemistry, 2013, 288(9): 6743-6753.

#### Caution

#### FOR RESEARCH PURPOSES ONLY.

#### NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

# **APExBIO Technology**

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