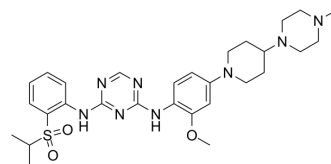


ASP3026

Cat. No.:	HY-13326		
CAS No.:	1097917-15-1		
Molecular Formula:	C ₂₉ H ₄₀ N ₈ O ₃ S		
Molecular Weight:	580.74		
Target:	Anaplastic lymphoma kinase (ALK); Apoptosis		
Pathway:	Protein Tyrosine Kinase/RTK; Apoptosis		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 20 mg/mL (34.44 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.7219 mL	8.6097 mL	17.2194 mL
	5 mM	0.3444 mL	1.7219 mL	3.4439 mL
	10 mM	0.1722 mL	0.8610 mL	1.7219 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2 mg/mL (3.44 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2 mg/mL (3.44 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2 mg/mL (3.44 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

ASP3026 is a potent, selective and orally active inhibitor of anaplastic lymphoma kinase (ALK). ASP3026 induces apoptosis of tumor cells. ASP3026 can be used for the research of non-small cell lung cancer (NSCLC)^{[1][2]}.

CUSTOMER VALIDATION

- Science. 2017 Dec 1;358(6367):eaan4368.
- Sci Transl Med. 2018 Jul 18;10(450):eaaq1093.
- Technical University of Munich. 24.01.2018.
- Cell Physiol Biochem. 2017;43(2):507-517.
- Harvard Medical School LINCS LIBRARY

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- [1]. Discovery of likubo K, et, al. N-[2-Methoxy-4-[4-(4-methylpiperazin-1-yl)piperidin-1-yl]phenyl]-N'-[2-(propane-2-sulfonyl)phenyl]-1,3,5-triazine-2,4-diamine (ASP3026), a Potent and Selective Anaplastic Lymphoma Kinase (ALK) Inhibitor. Chem Pharm Bull (Tok
- [2]. George SK, et, al. The ALK inhibitor ASP3026 eradicates NPM-ALK⁺ T-cell anaplastic large-cell lymphoma in vitro and in a systemic xenograft lymphoma model. Oncotarget. 2014 Jul 30;5(14):5750-63.
- [3]. Bhuyan AAM, et, al. Inhibition of Erythrocyte Cell Membrane Scrambling by ASP3026. Cell Physiol Biochem. 2017;43(2):507-517.
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Caution: Product has not been fully validated for medical applications. For research use only.

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