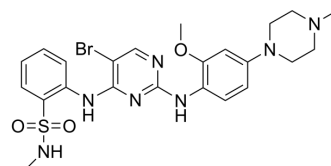


ALK inhibitor 1

Cat. No.:	HY-15357												
CAS No.:	761436-81-1												
Molecular Formula:	C ₂₃ H ₂₈ BrN ₇ O ₃ S												
Molecular Weight:	562.48												
Target:	Anaplastic lymphoma kinase (ALK); FAK												
Pathway:	Protein Tyrosine Kinase/RTK												
Storage:	<table border="0"> <tr> <td>Powder</td> <td>-20°C</td> <td>3 years</td> </tr> <tr> <td></td> <td>4°C</td> <td>2 years</td> </tr> <tr> <td>In solvent</td> <td>-80°C</td> <td>2 years</td> </tr> <tr> <td></td> <td>-20°C</td> <td>1 year</td> </tr> </table>	Powder	-20°C	3 years		4°C	2 years	In solvent	-80°C	2 years		-20°C	1 year
Powder	-20°C	3 years											
	4°C	2 years											
In solvent	-80°C	2 years											
	-20°C	1 year											



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (177.78 mM)
 1M HCl : 100 mg/mL (177.78 mM); ultrasonic and adjust pH to 1 with HCl)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.7778 mL	8.8892 mL	17.7784 mL
	5 mM	0.3556 mL	1.7778 mL	3.5557 mL
	10 mM	0.1778 mL	0.8889 mL	1.7778 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: ≥ 2.5 mg/mL (4.44 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.5 mg/mL (4.44 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

ALK inhibitor 1 (compound 17) is a potent pyrimidin ALK inhibitor. ALK inhibitor 1 is a potent inhibitor of testis-specific serine/threonine kinase 2 (TSSK2; IC₅₀=31 nM) and focal adhesion kinase (FAK; IC₅₀=2 nM)^[1].

In Vitro

ALK inhibitor 1 (compound 17) inhibits IGF-1R with an IC₅₀ of 90 nM^[1].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- ChemMedChem. 2017 Nov 22;12(22):1857-1865.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Jon E Hawkinson, et al. Potent Pyrimidine and Pyrrolopyrimidine Inhibitors of Testis-Specific Serine/Threonine Kinase 2 (TSSK2). ChemMedChem. 2017 Nov 22;12(22):1857-1865.

Caution: Product has not been fully validated for medical applications. For research use only.

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