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Produktinformation



Forschungsprodukte & Biochemikalien



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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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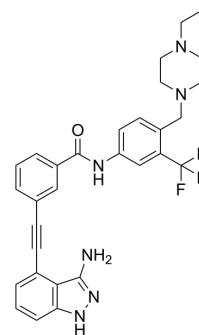
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AKE-72

Cat. No.:	HY-157327		
CAS No.:	2566525-18-4		
Molecular Formula:	C ₃₀ H ₂₉ F ₃ N ₆ O		
Molecular Weight:	546.59		
Target:	Bcr-Abl		
Pathway:	Protein Tyrosine Kinase/RTK		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (182.95 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.8295 mL	9.1476 mL	18.2952 mL
	5 mM	0.3659 mL	1.8295 mL	3.6590 mL
	10 mM	0.1830 mL	0.9148 mL	1.8295 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 (4.57 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (4.57 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (4.57 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

AKE-72 (compound 5) is a potent inhibitor of Pan-BCR-ABL. AKE-72 inhibits BCR-ABL^{WT}, BCR-ABL^{T315}, BCR-ABL^{E255K}, BCR-ABL^{F317I}, BCR-ABL^{H396P} and BCR-ABL^{Q252H} with IC₅₀s of < 0.5, 9, 8.98, 3.12, < 1.0 and 3.88 nM, respectively. AKE-72 has anti-leukemic activity against K-562 cell line^[1].

REFERENCES

[1]. 3-((3-amino-1H-indazol-4-yl)ethynyl)-N-(4-((4-ethylpiperazin-1-yl)methyl)-3-(trifluoromethyl)phenyl)benzamide (AKE-72), a potent Pan-BCR-ABL inhibitor including the T315I gatekeeper resistant mutant. J Enzyme Inhib Med Chem. 2023 Dec;38(1):2228515.

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

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