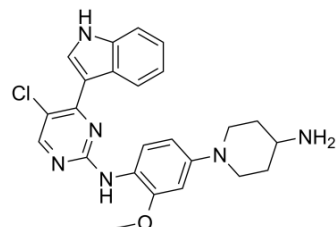


AZD-3463

Cat. No.:	HY-15609		
CAS No.:	1356962-20-3		
Molecular Formula:	C ₂₄ H ₂₅ ClN ₆ O		
Molecular Weight:	448.95		
Target:	ALK; IGF-1R; Autophagy; Apoptosis		
Pathway:	Protein Tyrosine Kinase/RTK; Autophagy; Apoptosis		
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 : 20 mg/mL (44.55 mM; Need ultrasonic)
 H₂O : < 0.1 mg/mL (insoluble)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.2274 mL	11.1371 mL	22.2742 mL
	5 mM	0.4455 mL	2.2274 mL	4.4548 mL
	10 mM	0.2227 mL	1.1137 mL	2.2274 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 2 mg/mL (4.45 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

AZD-3463 (ALK/IGF1R inhibitor) is an orally bioavailable ALK/IGF1R inhibitor, with a K_i of 0.75 nM for ALK. AZD3463 induces apoptosis and autophagy in neuroblastoma cells^{[1][2][3]}.

IC₅₀ & Target

Ki: 0.75 nM (ALK), IGF1R^[1]

REFERENCES

[1]. Lisa Drew, et al. Abstract 919: AZD3463, a novel ALK/IGF1R inhibitor, overcomes multiple mechanisms of acquired resistance to crizotinib. Cancer Res 2013;73.

[2]. Yongfeng Wang, et al. Novel ALK inhibitor AZD3463 inhibits neuroblastoma growth by overcoming crizotinib resistance and inducing apoptosis. Sci Rep. 2016; 6: 19423.

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

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