

Product Name: AZD-3463 Revision Date: 01/10/2021

Product Data Sheet

AZD-3463

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Cat. No.:	A8620	H ₂ N		
CAS No.:	1 <mark>356962-20-</mark> 3			
Formula:	C24H25CIN6O			
M.Wt:	448.95	J NH		
Synonyms:				
Target:	Tyrosine Kinase			
Pathway:	ALK			
Storage:	Store at -20°C			
	810	810		
Solvent & Solubility				

insoluble in H2O; insoluble in EtOH; \geq 11.22 mg/mL in DMSO Mass Solvent 1mg 5mg 10mg Preparing Concentration In Vitro Stock Solutions 1 mM 2.2274 mL 11.1371 mL 22.2742 mL 5 mM 2.2274 mL 0.4455 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.

Biological Activity

Shortsummary	ALK/IGF1R inhibitor	
IC ₅₀ & Target	0.75 nM(Ki) (ALK)	
	Cell Viability Assay	
	Cell Line:	ALK wild type cell lines (SK-N-AS, IMR-32, NGP, NB-19) and ALK mutant cell
		lines (LA-N-6 (D1091N) and SH-SY5Y (WT/F1174L))
In Vitro	Preparation method:	The solubility of this compound in DMSO is >11.2mg/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.

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	Reacting conditions:	0~50 μM, 72h
	Applications:	AZD-3463 effectively suppressed the proliferation of neuroblastoma cell lines
		with wild type ALK as well as ALK activating mutations by blocking the
		ALK-mediated PI3K/AKT/mTOR pathway and ultimately induced apoptosis
		and autophagy.
	Animal experiment	810
	Animal models:	Orthotopic Neuroblastoma Mouse Model
	Dosage form:	15 mg/kg intraperitoneal injection once daily for 2 days.
	Applications:	AZD-3463 exhibited significant therapeutic efficacy on the growth of the
In Vivo		neuroblastoma tumors with WT and F1174L activating mutation ALK in
		orthotopic xenograft mouse models.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may
		slightly differ with the theoretical value. This is caused by an experimental
		system error and it is normal.
	E Blow	E-Bartanan

Product Citations

1. Wilson C, Nimick M, et al. "ALK and IGF-1R as independent targets in crizotinib resistant lung cancer." Sci Rep. 2017 Oct 24;7(1):13955.PMID:29066738

2. Hawkinson JE, Sinville R, et al."Potent Pyrimidine and Pyrrolopyrimidine Inhibitors of Testis-Specific Serine/Threonine Kinase 2 (TSSK2)." ChemMedChem. 2017 Sep 26.PMID:28952188

3. Wang Y, Wang L, et al. "Novel ALK inhibitor AZD3463 inhibits neuroblastoma growth by overcoming crizotinib resistance and inducing apoptosis." Sci Rep. 2016 Jan 20;6:19423.PMID:26786851

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References

[1] Wang Y, Wang L, Guan S, Cao W, Wang H, Chen Z, et al. Novel ALK inhibitor AZD3463 inhibits neuroblastoma growth by overcoming crizotinib resistance and inducing apoptosis. Sci Rep. 2016;6:19423.

Caution



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