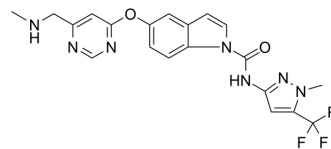


Acrizanib

Cat. No.:	HY-109020		
CAS No.:	1229453-99-9		
Molecular Formula:	C ₂₀ H ₁₈ F ₃ N ₇ O ₂		
Molecular Weight:	445.4		
Target:	VEGFR		
Pathway:	Protein Tyrosine Kinase/RTK		
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 : 41.67 mg/mL (93.56 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.2452 mL	11.2259 mL	22.4517 mL
		5 mM	0.4490 mL	2.2452 mL	4.4903 mL
10 mM		0.2245 mL	1.1226 mL	2.2452 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (4.67 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (4.67 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.67 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	Acrizanib (LHA510) is a VEGFR-2 inhibitor, with an IC ₅₀ of 17.4 nM for BaF3-VEGFR-2 ^[1] .
IC ₅₀ & Target	VEGFR-2 17.4 nM (IC ₅₀)
In Vitro	Acrizanib is a VEGFR-2 inhibitor, with an IC ₅₀ of 17.4 nM for BaF3-KDR. Acrizanib (compound 35) exhibits ≤10% remaining kinase activity against only 13 wild type kinases: CSF1R, Kit, PDGFRα, PDGFRβ, VEGFR1, VEGFR2, VEGFR3, Fms (soluble

VEGFR1), DDR1, DDR2, TIE1, and ABL1 (nonphosphorylated)^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Rat ocular PK studies with Acrizanib shows a distinctly different profile from that observed with compound 25. While prolonged exposure is once again evident in the PEC, the AUC ratio to the level of Acrizanib in plasma is markedly increased (>21000-fold higher exposure in the PEC than plasma on day 11). Furthermore, unlike 25, Acrizanib also afford much improved retina to plasma AUC exposure ratio after 10 days of dosing (598× for Acrizanib vs 0.8× for 25)^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Adams CM, et al. The Discovery of N-(1-Methyl-5-(trifluoromethyl)-1H-pyrazol-3-yl)-5-((6-((methylamino)methyl)pyrimidin-4-yl)oxy)-1H-indole-1-carboxamide (Acrizanib), a VEGFR-2 Inhibitor Specifically Designed for Topical Ocular Delivery, as a Therapy for

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

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