Tinlorafenib

Cat. No.:	HY-147405			
CAS No.:	2573781-75-4			
Molecular Formula:	C ₁₉ H ₁₉ ClF ₂ N ₄ O ₃ S			
Molecular Weight:	456.89			
Target:	Raf			
Pathway:	MAPK/ERK Pathway			
Storage:	Powder	-20°C	3 years	
		4°C	2 years	
	In solvent	-80°C	6 months	
		-20°C	1 month	

SOLVENT & SOLUBILITY

Preparing Stock Solutions		Mass Solvent Concentration	1 mg	5 mg	10 mg			
		1 mM	2.1887 mL	10.9436 mL	21.8871 mL			
	5 mM	0.4377 mL	2.1887 mL	4.3774 mL				
		10 mM	0.2189 mL	1.0944 mL	2.1887 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: ≥ 2.08 mg/mL (4.55 mM); Clear solution							
		2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (4.55 mM); Clear solution						
	 Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.55 mM); Clear solution 							

BIOLOGICAL ACTIVITY					
Description	Tinlorafenib (PF-07284890) (compound 10) is an orally active BRAF kinase inhibitor, with IC ₅₀ s of 4.25 and 2.7 nM for BRAF ^{V600E/V600K} respectively. Tinlorafenib demonstrates CNS penetration and can be used in the research of BRAF-associated malignant and benign tumors of the CNS as well as extracranial malignancies ^[1] .				
IC ₅₀ & Target	BRaf ^{V600E} 4.25 nM (IC ₅₀)	BRaf ^{V600K} 2.7 nM (IC ₅₀)			

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Product Data Sheet

REFERENCES

[1]. Barbour, et al. Quinazolin-4-one derivatives useful for the treatment of braf-associated diseases and disorders. WO2020261156A1.

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

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