Inhibitors

Product Data Sheet

Exarafenib

Cat. No.: HY-147268 CAS No.: 2639957-39-2 Molecular Formula: $C_{26}H_{34}F_3N_5O_3$ Molecular Weight: 521.58

Raf; p38 MAPK Target: Pathway: MAPK/ERK Pathway

Storage: 4°C, sealed storage, away from moisture and light

* In solvent: -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture

and light)

SOLVENT & SOLUBILITY

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DMSO: 100 mg/mL (191.73 mM; Need ultrasonic)

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.9173 mL	9.5863 mL	19.1725 mL
Stock Solutions	5 mM	0.3835 mL	1.9173 mL	3.8345 mL
	10 mM	0.1917 mL	0.9586 mL	1.9173 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: ≥ 2.5 mg/mL (4.79 mM); Clear solution
- 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (4.79 mM); Suspended solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description		an orally-available, selective pan-RAF inhibitor. Exarafenib is effective in RAF-dependent of BRAF alterations. Exarafenib suppresses MAPK signaling in RAF-dependent melanoma cell cer activity $^{[1][2]}$.
IC ₅₀ & Target	RAF	p38 MAPK
In Vitro	MAPK signaling in RAF-depen	10000 nM; 24 h) inhibits RAF-dependent melanoma cell line growth. Exarafenib suppresses dent melanoma cell lines $^{[1]}$. onfirmed the accuracy of these methods. They are for reference only.

	Cell Line:	Melanoma cell (A375 BRAF ^{V600E} , HMVII BRAF ^{G469V} ; NRAS ^{Q61K} , WM3629 BRAF ^{D594G} ; NRAS ^{G12D} , SKMEL2 NRAS ^{Q61R})
	Concentration:	1-10000 nM
	Incubation Time:	24 h
	Result:	Inhibited RAF-dependent melanoma cell line growth.
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ı Vivo	melanoma xenografts ir	
n Vivo	melanoma xenografts ir	n vivo ^[1] .
ı Vivo	melanoma xenografts ir MCE has not independe	n vivo ^[1] . ently confirmed the accuracy of these methods. They are for reference only.
Vivo	melanoma xenografts ir MCE has not independe Animal Model:	ently confirmed the accuracy of these methods. They are for reference only. BALB/c nude mice xenograft models of BRAF and NRAS-mutant melanoma ^[1]

REFERENCES

[1]. Miller N, et, al. Antitumor activity of KIN-2787, a next-generation pan-RAF inhibitor, in combination with MEK inhibition in preclinical models of human NRAS mutant melanoma. 2022 Jun 2;40(16): e15099.

[2]. WHO Drug Information. International Nonproprietary Names for Pharmaceutical

 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

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