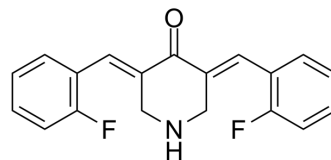


EF24

Cat. No.:	HY-119272		
CAS No.:	342808-40-6		
Molecular Formula:	C ₁₉ H ₁₅ F ₂ NO		
Molecular Weight:	311.33		
Target:	ERK; Caspase		
Pathway:	MAPK/ERK Pathway; Stem Cell/Wnt; 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 : 50 mg/mL (160.60 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.2120 mL	16.0601 mL	32.1203 mL
	5 mM	0.6424 mL	3.2120 mL	6.4241 mL
	10 mM	0.3212 mL	1.6060 mL	3.2120 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: 2.5 mg/mL (8.03 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: 2.5 mg/mL (8.03 mM); Suspended solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

EF24 is a curcumin analogue with greater anti-tumor efficacy and oral bioavailability via deactivation of the MAPK/ERK signaling pathway in oral squamous cell carcinoma (OSCC). EF24 treatment increases the levels of activated caspase 3 and 9, and decreases the phosphorylated forms of MEK1 and ERK^{[1][2]}.

REFERENCES

- [1]. Lelli D, et al. Curcumin and treatment of melanoma: The potential role of microRNAs. Biomed Pharmacother. 2017 Apr;88:832-834.

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

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