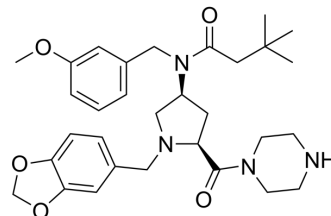


CUR61414

Cat. No.:	HY-113965	
CAS No.:	334998-36-6	
Molecular Formula:	C ₃₁ H ₄₂ N ₄ O ₅	
Molecular Weight:	550.69	
Target:	Hedgehog; Smo; Apoptosis	
Pathway:	Stem Cell/Wnt; Apoptosis	
Storage:	Powder	-20°C 3 years
	In solvent	-80°C 6 months
		-20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (181.59 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.8159 mL	9.0795 mL	18.1590 mL
5 mM	0.3632 mL	1.8159 mL	3.6318 mL
10 mM	0.1816 mL	0.9080 mL	1.8159 mL

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

BIOLOGICAL ACTIVITY

Description

CUR61414 is a novel, potent and cell permeable Hedgehog signaling pathway inhibitor (IC₅₀ =100-200 nM). CUR61414 is a small-molecule aminoproline class compound and selectively binds to smoothened (Smo) with a K_i value of 44 nM. CUR-61414 can induce apoptosis in cancer cells without affecting neighboring non-tumor cells^{[1][2]}.

IC₅₀ & Target

Hedgehog inhibitor^[1]

In Vitro

CUR61414 is able to arrest proliferation of basal cells within the BCC-like lesions and induce cells to undergo apoptosis resulting in complete regression of the lesions, without affecting neighboring skin cells^[1].

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

In Vivo

CUR61414 cause regression of these lesions in the mice, which are exposed to UV light irradiation for 6-9 months, producing many microscopic BCC-like basaloid lesions throughout their skin. Moreover, a significant increase in apoptotic nuclei can be seen in basaloid nests after CUR61414 treatment and no overt toxicity is observed in the skin surrounding the lesions^[1].

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

CUSTOMER VALIDATION

- Research Square Preprint. 2020 Jun.

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REFERENCES

- [1]. Williams JA, et al. Identification of a small molecule inhibitor of the hedgehog signaling pathway: effects on basal cell carcinoma-like lesions. Proc Natl Acad Sci U S A. 2003 Apr 15;100(8):4616-21. Epub 2003 Apr 4.
- [2]. Frank-Kamenetsky M, et al. Small-molecule modulators of Hedgehog signaling: identification and characterization of Smoothed agonists and antagonists. J Biol. 2002 Nov 6;1(2):10.
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Caution: Product has not been fully validated for medical applications. For research use only.

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