## Hedgehog IN-6

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Cat. No.:HY-162372Molecular Formula:C25H43NO2Molecular Weight:389.61Target:Hedgehog; SmoPathway:Stem Cell/WntStorage:Please store the product under the Analysis.	Ho ,
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<b>BIOLOGICAL ACTIV</b>		
Description	Hedgehog IN-6 (Compour	nd Q29) is a Hedgehog (Hh) inhibitor that can be used in cancer research. Hedgehog IN-6 inhibits ay by binding to the cysteine-rich domain (CRD) of Smoothened (Smo) and blocking its
In Vitro	Q29 (1-10 μM; 24 h) dose-dependently inhibits GLI1 protein expression activated by Shh-N <sup>[1]</sup> . Q29 (1-10 μM; 24 h + 12 h) inhibits Hh signaling-dependent cell proliferation in a dose-dependent manner <sup>[1]</sup> . Q29 inhibits Gli-luciferase activity with an IC <sub>50</sub> of 1.33 μM in the presence of different concentrations of Shh-N <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis <sup>[1]</sup>	
	Cell Line:	NIH 3T3 cells
	Concentration:	1, 3, 10 μΜ
	Incubation Time:	24 h
	Result:	Dose dependently decreased the protein and mRNA levels of endogenous Gli1.
	Cell Proliferation Assay <sup>[1]</sup>	
	Cell Line:	cGNP cells; medulloblastoma cells
	Concentration:	1, 3, 10 μΜ
	Incubation Time:	24 h+12h
	Result:	Dose dependently inhibited the growth of Shh-N-stimulated cGNP cells and medulloblastoma cells isolated from Ptch1+/P53/ mice.
In Vivo		ge; twice daily; 13 days) effectively inhibits tumor growth in Ptch1+/P53/ mice <sup>[1]</sup> . tly confirmed the accuracy of these methods. They are for reference only.
	Animal Model:	Ptch1+/P53/ mice <sup>[1]</sup>

Dosage:	90 mg/kg
Administration:	p.o.; twice daily; 13 days
Result:	Effectively inhibited tumor growth and exhibited synergistic inhibition with vismodegib (15 mg/kg; HY-10440)

## REFERENCES

[1]. Liu YB, et al. A sterol analog inhibits hedgehog pathway by blocking cholesterylation of smoothened. Cell Chem Biol. 2024 Feb 28:S2451-9456(24)00076-X.

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

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