**Proteins** 

## **Product** Data Sheet

## SMO-IN-4

Cat. No.: HY-153499 CAS No.: 1567963-99-8 Molecular Formula:  $C_{24}H_{27}CIN_6O$ Molecular Weight: 450.96

Target: Smo

Pathway: Stem Cell/Wnt

Storage: Please store the product under the recommended conditions in the Certificate of

Analysis.

## **BIOLOGICAL ACTIVITY**

Description SMO-IN-4 (Compound 24) is a potent and orally active smoothened antagonist (IC<sub>50</sub>: 24 nM). SMO-IN-4 has antitumor activity [1]

In Vitro SMO-IN-4 (10  $\mu$ M) shows minimal inhibition of all CYP isoforms, and also has low inhibition on hERG (IC<sub>50</sub> = 38  $\mu$ M)<sup>[1]</sup>.

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

In Vivo SMO-IN-4 (50 mg/kg, daily by oral gavage) leads to regression of subcutaneous tumor in a subcutaneous xenograft model of Ptch1<sup>+/-</sup> mouse medulloblastoma<sup>[2]</sup>.

PK properties of SMO-IN-4 (compound 24)<sup>[2]</sup>.

Species	Dose (mg/kg)	AUC <sub>0-24h</sub> (ng∙h/mL)	C <sub>max</sub> (ng/mL)	t <sub>1/2</sub> (h)	F%
Mouse	p.o. (10 mg/kg)	4183	4132	1.0	49
Rat	p.o. (10 mg/kg)	5541	2180	2.3	62
Dog	p.o. (5 mg/kg)	7656	1300	5.4	72

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## **REFERENCES**

[1]. Lu W, et al. Design, Synthesis, and Structure-Activity Relationship of Tetrahydropyrido[4,3-d]pyrimidine Derivatives as Potent Smoothened Antagonists with in Vivo Activity. ACS Chem Neurosci. 2017 Sep 20;8(9):1980-1994.

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

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