



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

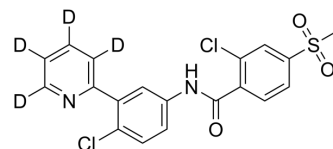
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Vismodegib-d₄

Cat. No.:	HY-W705354
CAS No.:	1450990-33-6
Molecular Formula:	C ₁₉ H ₁₀ D ₄ Cl ₂ N ₂ O ₃ S
Molecular Weight:	425.32
Target:	Isotope-Labeled Compounds; Hedgehog; Autophagy
Pathway:	Others; Stem Cell/Wnt; Autophagy
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Vismodegib-d₄ is deuterium labeled Vismodegib. Vismodegib (GDC-0449) is an orally active hedgehog pathway inhibitor with an IC₅₀ of 3 nM. Vismodegib also inhibits P-gp, ABCG2 with IC₅₀ values of 3.0 μM and 1.4 μM, respectively^{[1][2]}.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Tian F, et al. The hedgehog pathway inhibitor GDC-0449 alters intracellular Ca²⁺ homeostasis and inhibits cell growth in NSC 119875-resistant lung cancer cells. *Anticancer Res*. 2012, 32(1), 89-94.
- [3]. Zhang Y, et al. Hedgehog pathway inhibitor HhAntag691 is a potent inhibitor of ABCG2/BCRP and ABCB1/Pgp. *Neoplasia*. 2009, 11(1), 96-101.
- [4]. Elhenawy AA, et al. Possible antifibrotic effect of GDC-0449 (Vismodegib), a hedgehog-pathway inhibitor, in mice model of Schistosoma-induced liver fibrosis. *Parasitol Int*. 2017 Oct;66(5):545-554.
- [5]. Scales SJ, et al. Mechanisms of Hedgehog pathway activation in cancer and implications for therapy. *Trends Pharmacol Sci*. 2009, 30(6), 303-312.
- [6]. Wong H, et al. Pharmacokinetic-pharmacodynamic analysis of vismodegib in preclinical models of mutational and ligand-dependent Hedgehog pathway activation. *Clin Cancer Res*. 2011, 17(14), 4682-4692.
- [7]. Ma W, et al. Reduced Smoothed level rescued Aβ-induced memory deficits and neuronal inflammation in animal models of Alzheimer's disease. *J Genet Genomics*. 2018 May 20;45(5):237-246.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA