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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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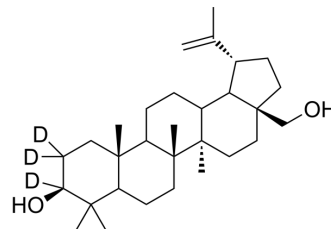
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Betulin-d₃

Cat. No.:	HY-N0083S
Molecular Formula:	C ₃₀ H ₄₇ D ₃ O ₂
Molecular Weight:	445.74
Target:	Isotope-Labeled Compounds; Endogenous Metabolite; Apoptosis; Fatty Acid Synthase (FASN)
Pathway:	Others; Metabolic Enzyme/Protease; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Betulin-d₃ (Trochol-d₃) is deuterium labeled Betulin. Betulin (Trochol), is a sterol regulatory element-binding protein (SREBP) inhibitor with an IC₅₀ of 14.5 μM in K562 cell line^[1].

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Król SK, et al. Comprehensive review on betulin as a potent anticancer agent. *Biomed Res Int*. 2015;2015:584189.
- [3]. Drag M, et al. Comparison of the Cytotoxic Effects of Birch Bark Extract, Betulin and Betulinic Acid Towards Human Gastric Carcinoma and Pancreatic Carcinoma Drug-sensitive and Drug-Resistant Cell Lines. *Molecules*. 2009 Apr 24;14(4):1639-51.
- [4]. Ma C, et al. Protective effect of betulin on cognitive decline in streptozotocin (STZ)-induced diabetic rats. *Neurotoxicology*. 2016 Dec;57:104-111.

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

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