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Produktinformation

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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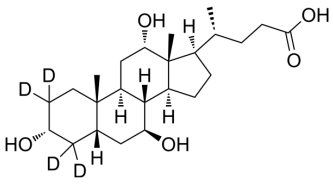
Ursocholic acid-d_4

Cat. No.:	HY-113212S
Molecular Formula:	$C_{24}H_{36}D_4O_5$
Molecular Weight:	412.6
Target:	Isotope-Labeled Compounds; Apoptosis; Endogenous Metabolite
Pathway:	Others; Apoptosis; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Ursocholic acid-d_4 is deuterium labeled Ursocholic acid. Ursocholic acid, a bile acid present in mammalian bile, is converted to deoxycholic acid (UDC) by the mouse intestinal flora. Ursocholic acid acts as a gallstone dissolving agent in the liver through anti-apoptosis, anti-inflammatory, immunomodulatory, bile regulation, and coordinated changes in mitochondrial integrity and cell signaling, Ursocholic acid also has favorable effects on bones in patients with chronic cholestasis[1][2][3][4][5][6].

REFERENCES

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.

[2]. Ikegami, et al. Ursodeoxycholic acid: mechanism of action and novel clinical applications. Hepatology Research 38.2 (2008): 123-131.

[3]. MacDonald IA, et al. Formation of ursodeoxycholic acid from chenodeoxycholic acid by a 7 beta-hydroxysteroid dehydrogenase-elaborating Eubacterium aerofaciens strain cocultured with 7 alpha-hydroxysteroid dehydrogenase-elaborating organisms. Appl Environ Microbiol. 1982 Nov;44(5):1187-95.

[4]. Kim, et al. Ursodeoxycholic acid attenuates 5‐fluorouracil‐induced mucositis in a rat model. Oncology letters 16.2 (2018): 2585-2590.

[5]. Lee HI, et al. Ursodeoxycholic acid, an inhibitor of hepatocyte nuclear factor 1α, did not increase the systemic exposure of pitavastatin. Int J Clin Pharmacol Ther. 2014 Nov;52(11):981-5.

[6]. Dubreuil, et al. Ursodeoxycholic acid increases differentiation and mineralization and neutralizes the damaging effects of bilirubin on osteoblastic cells. Liver international 33.7 (2013): 1029-1038.

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

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