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Zuschläge

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- Trockeneiszuschlag
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- Expressversand

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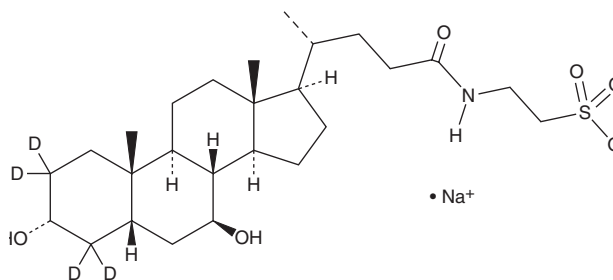
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PRODUCT INFORMATION

Tauroursodeoxycholic Acid-d$_4$ (sodium salt)
Item No. 32985

CAS Registry No.: 2410279-95-5
Formal Name: 2-[[(3α,5β,7β)-3,7-dihydroxy-24-oxocholan-24-yl-2,2,4,4-d$_4$]amino]-ethanesulfonic acid, monosodium salt
Synonyms: 3α,7β-dihydroxy-5β-cholanoyl Taurine-d$_4$, Sodium Tauroursodeoxycholate-d$_4$, TUDCA-d$_4$, UR-906-d$_4$
MF: C$_{26}$H$_{40}$D$_4$NO$_6$S • Na
FW: 525.7
Chemical Purity: ≥98% (Tauroursodeoxycholic Acid)
Deuterium Incorporation: ≥99% deuterated forms (d$_1$-d$_4$); ≤1% d$_0$
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥2 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Tauroursodeoxycholic acid-d$_4$ (sodium salt) is intended for use as an internal standard for the quantification of tauroursodeoxycholic acid (Item Nos. 20277 | 9003379) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated *versus* unlabeled).

Tauroursodeoxycholic acid-d$_4$ (sodium salt) is supplied as a crystalline solid. A stock solution may be made by dissolving the tauroursodeoxycholic acid-d$_4$ (sodium salt) in the solvent of choice, which should be purged with an inert gas. Tauroursodeoxycholic acid-d$_4$ (sodium salt) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of tauroursodeoxycholic acid-d$_4$ (sodium salt) in these solvents is approximately 1, 20, and 25 mg/ml, respectively.

Description

Tauroursodeoxycholic acid (TUDCA) is a taurine-conjugated form of the secondary bile acid ursodeoxycholic acid (Item No. 15121).[1,2] TUDCA is found in small quantities in human bile but at a higher concentration in the bile of black bears.[2] It demonstrates anti-apoptotic activity in rodent models of tauopathy, Huntington's disease, ischemic brain injury, and retinal disorders.[2,3]

References

1. Beuers, U. Effects of bile acids on hepatocellular signaling and secretion. *Yale J. Biol. Med.* **70(4)**, 341-346 (1997).
2. Boatright, J.H., Nickerson, J.M., Moring, A.G., *et al.* Bile acids in treatment of ocular disease. *J. Ocul. Biol. Dis. Infor.* **2(3)**, 149-159 (2009).
3. Vang, S., Longley, K., Steer, C.J., *et al.* The unexpected uses of urso- and tauroursodeoxycholic acid in the treatment of non-liver diseases. *Glob. Adv. Health Med.* **3(3)**, 58-69 (2014).

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