

Taurohyodeoxycholic acid sodium salt

Chemical Properties

CAS No.:	110026-03-4
Formula:	C ₂₆ H ₄₇ NNaO ₇ S ⁺
Molecular Weight:	540.71
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Taurohyodeoxycholic acid sodium salt, a hydrophilic bile salt, on bile salt and biliary lipid secretion in the rat.
Targets(IC ₅₀)	Caspase: None
In vivo	At all infusion rates, taurohyodeoxycholic acid caused a greater ($P < 0.001$) secretion of biliary lecithin compared to the other bile salts. There were no significant differences in the biliary secretion of cholesterol and proteins. Electron microscopy showed the recruitment of vesicles and lamellar bodies around and within bile canaliculi. In conclusion, taurohyodeoxycholic promotes a biliary lecithin secretion greater than expected from physicochemical predictions, representing a novel secretory property with potential pharmacological relevance[1].

Solubility Information

Solubility	DMSO: 125 mg/mL (231.18 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.849 mL	9.247 mL	18.494 mL
5 mM	0.37 mL	1.849 mL	3.699 mL
10 mM	0.185 mL	0.925 mL	1.849 mL
50 mM	0.037 mL	0.185 mL	0.37 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

- Angelico M , Baiocchi L , Nistri A , et al. Effect of taurohyodeoxycholic acid, a hydrophilic bile salt, on bile salt and biliary lipid secretion in the rat[J]. Digestive Diseases & Sciences, 1994, 39(11):2389-2397.
- Roda A , Piazza F , Baraldini M , et al. Taurohyodeoxycholic acid protects against taurochenodeoxycholic acid-induced cholestasis in the rat[J]. Hepatology, 1998, 27.

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