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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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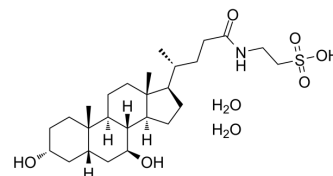
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Tauroursodeoxycholate dihydrate

Cat. No.:	HY-19696B
CAS No.:	117609-50-4
Molecular Formula:	C ₂₆ H ₄₉ NO ₈ S
Molecular Weight:	535.73
Target:	ERK; Caspase; Apoptosis; Endogenous Metabolite
Pathway:	MAPK/ERK Pathway; Stem Cell/Wnt; Apoptosis; Metabolic Enzyme/Protease
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 83.33 mg/mL (155.54 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		1.8666 mL	9.3331 mL	18.6661 mL
		5 mM		0.3733 mL	1.8666 mL	3.7332 mL
		10 mM		0.1867 mL	0.9333 mL	1.8666 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (3.88 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (3.88 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (3.88 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Tauroursodeoxycholate (Tauroursodeoxycholic acid; TDUCA) dihydrate is an endoplasmic reticulum (ER) stress inhibitor. Tauroursodeoxycholate significantly reduces expression of apoptosis molecules, such as caspase-3 and caspase-12. Tauroursodeoxycholate also inhibits ERK ^{[1][2]} .
IC ₅₀ & Target	Human Endogenous Metabolite

CUSTOMER VALIDATION

- Nat Cell Biol. 2023 May;25(5):726-739.
- Adv Sci (Weinh). 2021 Nov;8(21):e2101936.
- Mol Ther. 2022 Dec 24;S1525-0016(22)00718-3.
- Redox Biol. 2023 Aug 25, 102861.
- Cell Death Dis. 2023 Aug 15;14(8):524.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Kim SY, et al. Tauroursodeoxycholate (TUDCA) inhibits neointimal hyperplasia by suppression of ERK viaPKC α -mediated MKP-1 induction. Cardiovasc Res. 2011 Nov 1;92(2):307-16.
- [2]. Qin Y, et al. Tauroursodeoxycholic Acid Attenuates Angiotensin II Induced Abdominal Aortic Aneurysm Formation in Apolipoprotein E-deficient Mice by Inhibiting Endoplasmic Reticulum Stress. Eur J Vasc Endovasc Surg. 2017 Mar;53(3):337-345.
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Caution: Product has not been fully validated for medical applications. For research use only.

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