

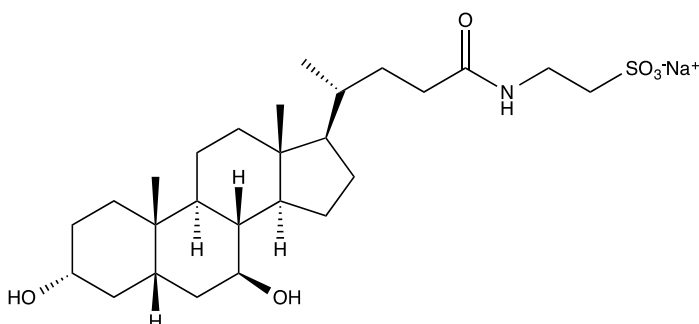
**Catalog # 10-2782**

**TUDCA**

CAS# 14605-22-2

3 $\alpha$ ,7 $\beta$ -Dihydroxy-5 $\beta$ -cholan-24-oic acid N-(2-sulfoethyl)amide  
Tauroursodeoxycholic acid, sodium salt

Lot # X106722



A classic inhibitor of endoplasmic reticulum (ER) stress.<sup>1</sup> Reduces ER stress and adipose tissue inflammation in a mouse model of high fat diet-induced obesity.<sup>2</sup> Blocks ER stress-induced NLRP3 inflammasome activation and hepatocyte death.<sup>3</sup> Attenuates amyloid precursor protein processing and amyloid- $\beta$  deposition in APP/PS1 mouse model.<sup>4</sup>

- 1) Xie et al. (2002), *Effects of tauroursodeoxycholic acid on endoplasmic reticulum stress-induced caspase-12 activation*; Hepatology, **36** 592
- 2) Chen et al. (2016), *Chemical chaperones reduce ER stress and adipose tissue inflammation in high fat diet-induced mouse model of obesity*; Sci.Rep., **6** 27486
- 3) Lebeaupin et al. (2015), *ER stress induces NLRP3 inflammasome activation and hepatocyte death*; Cell Death Dis., **6** e1879
- 4) Nunes et al. (2012), *TUDCA, a bile acid, attenuates amyloid precursor protein processing and amyloid- $\beta$  deposition in APP/PS1 mice*; Mol.Neurobiol. **45** 440

**PHYSICAL DATA**

Molecular Weight:	521.69
Molecular Formula:	C <sub>26</sub> H <sub>44</sub> NO <sub>6</sub> SNa
Purity:	95% by TLC
	NMR: (Conforms)
Solubility:	Soluble in DMSO (up to 30 mg/ml) or in Ethanol (up to 20 mg/ml with warming)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 1 month.

**Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.**