NEUROMICS

TUDCA Data Sheet

Catalog Number:	MC11042	**Product Type:**	Small Molecule
Bio-Activity:	ER stress inhibitor	**CAS #:**	14605-22-2
Research Categories:	Cellular stress, cell death, neuroscience, obesity, inflammation, neurodegeneration	**Chemical Name:**	3α,7β-Dihydroxy-5β-cholan-24-oic acid N-(2-sulfoethyl)amide
Solubility:	Soluble in DMSO (up to 30 mg/ml) or in Ethanol (up to 20 mg/ml with warming)	**Molecular Formula:**	C26H44NO6SNa
Purity:	> 98%	**Molecular Weight:**	521.7
Format:	Powder	**Ship Temp:**	Ambient
Storage:	-20°C		

Application Notes

Description/Data:
A classic inhibitor of endoplasmic reticulum (ER) stress [1]. Reduces ER stress and adipose tissue inflammation in a mouse model of high fat diet-induced obesity [2]. Blocks ER stress-induced NLRP3 inflammasome activation and hepatocyte death [3]. Attenuates amyloid precursor protein processing and amyloid-β deposition in APP/PS1 mouse model [4].

References:

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; Sco. 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-β deposition in APP/PS1 mice; Mol. Neurobiol. 45 440

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