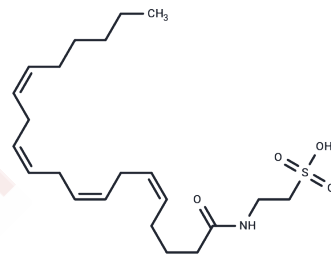


## N-Arachidonoyl Taurine

## Chemical Properties

CAS No. :	119959-65-8
Formula:	C22H37NO4S
Molecular Weight:	411.6
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	N-Arachidonoyl taurine is an arachidonoyl amino acid. It is oxygenated by 12(S)- and 15(S)-lipoxygenase and is converted to 12-HETE-taurine (12-HETE-T) in murine resident peritoneal macrophages. N-Arachidonoyl taurine is an activator of the transient receptor potential vanilloid (TRPV) channels TRPV1 and TRPV4 (EC50s = 28 and 21 $\mu$ M, respectively). It increases calcium flux in HIT-T15 pancreatic $\beta$ -cells and INS-1 rat islet cells when used at a concentration of 10 $\mu$ M and increases insulin secretion from 832/13 INS-1 pancreatic $\beta$ -cells. The levels of N-arachidonoyl taurine are changed in mouse brain following administration of $\delta$ 9-tetrahydrocannabinol ( $\delta$ 9-THC).
Targets(IC50)	Others,TRP/TRPV Channel

## Solubility Information

Solubility	DMF: 10 mg/mL (24.3 mM),Sonication is recommended. DMSO: 20 mg/mL (48.59 mM),Sonication is recommended. PBS (pH 7.2): 1.5 mg/mL (3.64 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4295 mL	12.1477 mL	24.2954 mL
5 mM	0.4859 mL	2.4295 mL	4.8591 mL
10 mM	0.243 mL	1.2148 mL	2.4295 mL
50 mM	0.0486 mL	0.243 mL	0.4859 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481