

Product Data Sheet

Product Name: Termitomycamide E

Cat. No.: GC45015

Chemical Properties

Cas. No. 1177258-62-6

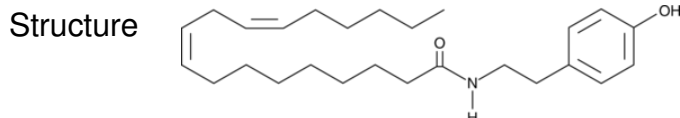
SMILES CCCCC/C=C\C/C=C\CCCCCCCC(NCCC1=CC=C(O)C=C1)=O

Formula C₂₆H₄₁NO₂ M.Wt 399.6

Solubility DMF: 30 mg/ml, DMSO: 30 mg/ml, Ethanol: 30 mg/ml, Ethanol: PBS (pH7.2)(1:20): 0.05 mg/ml
 Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.



Background

Endoplasmic reticulum (ER) stress, caused by accumulation of misfolded proteins and a disruption of calcium homeostasis, has been linked to several neuronal diseases including, Parkinson's, Alzheimer's, and prion diseases. A screen for protective activity against ER stress-dependent cell death identified termitomycamides, extracts from the fruiting bodies of *T. titanicus*, a notably large edible mushroom that is cultivated symbiotically in the nests of termites. Termitomycamide E is a fatty acid isolated from *T. titanicus* that at a dose of 0.1 µg/ml protects against ER stress-dependent cell death in Neuro2a cells induced by tunicamycin.

Caution: Product has not been fully validated for medical applications. For research use only.

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