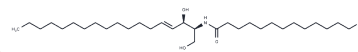


## C14 Ceramide (d18:1/14:0)

## Chemical Properties

CAS No. :	34227-72-0
Formula:	C32H63NO3
Molecular Weight:	509.85
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	C14 Ceramide (d18:1/14:0) is an endogenous ceramide produced by ceramide synthetase 6, which can be used for Parkinson's research.
Targets(IC50)	Others

## Solubility Information

Solubility	DMF: < 1 mg/mL (insoluble or slightly soluble) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9614 mL	9.8068 mL	19.6136 mL
5 mM	0.3923 mL	1.9614 mL	3.9227 mL
10 mM	0.1961 mL	0.9807 mL	1.9614 mL
50 mM	0.0392 mL	0.1961 mL	0.3923 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.

### Reference

- Choi S, et al. Myristate-induced endoplasmic reticulum stress requires ceramide synthases 5/6 and generation of C14-ceramide in intestinal epithelial cells. *FASEB J.* 2018 Oct;32(10):5724-5736.
- Sundaram, K., Mather, A.R., Marimuthu, S., et al. Loss of neutral ceramidase protects cells from nutrient- and energy -deprivation-induced cell death. *Biochem J.* 473(6), 43-55 (2016).
- Kasumov, T., Solomon, T.P., Hwang, C., et al. Improved insulin sensitivity after exercise training is linked to reduced plasma C14:0 ceramide in obesity and type 2 diabetes. *Obesity (Silver Spring)* 23(7), 1414-1421 (2015).
- Xing, Y., Tang, Y., Zhao, L., et al. Associations between plasma ceramides and cognitive and neuropsychiatric manifestations in Parkinson's disease dementia. *J. Neurol. Sci.* 370, 82-87 (2016).

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