

Product Data Sheet

Product Name: C18-Pyr-Cer

Cat. No.: GC78987

Chemical Properties

Cas. No. 1401032-35-6

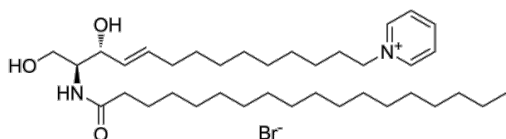
Formula $C_{37}H_{67}BrN_2O_3$ M.Wt 667.84

Solubility DMSO: 20 mg/mL (29.95 mM; Need ultrasonic) Storage Store at -20°C, sealed storage, away from moisture and light

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.

Structure



Background

C18-Pyr-Cer is a chemically modified synthetic ceramide analog. C18-Pyr-Cer directly interacts with MAP1LC3B-I I. C18-Pyr-Cer induces autophagy, targets autolysosomes to mitochondria, and mediates lethal autophagy in cancer cells. C18-Pyr-Cer can be used in the research of head and neck squamous cell carcinoma [1].

In Vitro, C18-pyr-Cer induces autophagy and directs autolysosomes to mitochondria in human head and neck squamous cell carcinoma (HNSCC) cells[1].

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

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References:

[1]. Deroyer C, et al. New role for EMD (emerin), a key inner nuclear membrane protein, as an enhancer of autophagosome formation in the C16-ceramide autophagy pathway. *Autophagy*. 2014 Jul;10(7):1229-40.

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