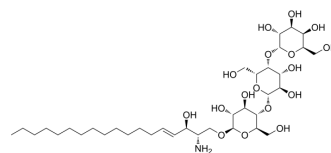


Globotriaosylsphingosine

| | |
|--------------------|---|
| Cat. No.: | HY-N12408 |
| CAS No.: | 126550-86-5 |
| Molecular Formula: | C ₃₆ H ₆₇ NO ₁₇ |
| Molecular Weight: | 785.91 |
| Target: | Calcium Channel |
| Pathway: | Membrane Transporter/Ion Channel; Neuronal Signaling |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

| | |
|--------------------|--|
| Description | Globotriaosylsphingosine (lyso-Gb3) inhibits the growth of fibroblasts, as well as their differentiation into myofibroblasts, and collagen expression. Globotriaosylsphingosine can be used for Fabry disease research ^[1] . |
| In Vitro | Globotriaosylsphingosine (100 nM, 500 nM; 24 h) reduces KCa3.1 mRNA expression levels and Glo1a1 and Glo3a1 protein levels ^[1] . Globotriaosylsphingosine (50-500 nM, 24 h) dose-dependently inhibits fibroblast growth, differentiation into myofibroblasts, and collagen synthesis ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

REFERENCES

- [1]. Choi JY, et al. Lyso-globotriaosylceramide downregulates KCa3.1 channel expression to inhibit collagen synthesis in fibroblasts. *Biochem Biophys Res Commun*. 2015 Dec 25;468(4):883-8.
- [2]. Auray-Blais C, et al. How well does urinary lyso-Gb3 function as a biomarker in Fabry disease? *Clin Chim Acta*. 2010 Dec 14;411(23-24):1906-14.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA