

Ceramide Phosphoethanolamines Biochemical

Ceramide Phosphoethanolamines (bovine)

CATALOG #
AAA227113

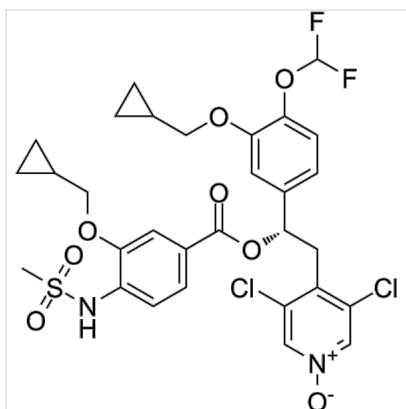
PRODUCT SYNONYMS

Ceramide Phosphoethanolamines; Ceramide Phosphoethanolamines (bovine); CHF-6001; Ceramide Phosphoethanolamines biochemical

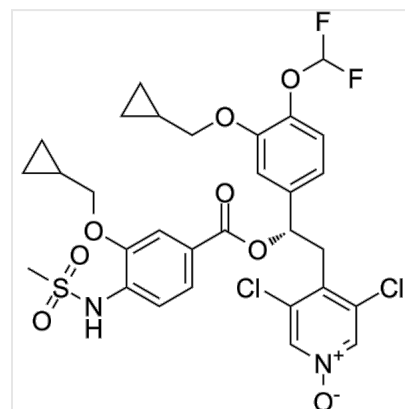
PRODUCT SPECIFICATIONS

Purity/Purification	98%
Solubility	Chloroform:Methanol:H ₂ O (2:1:0.1): Soluble <1mg/ml refers to the product slightly soluble or insoluble
Preparation and Storage	Powder: -20 degree C for 3 years In solvent: -80 degree C for 2 years

IMAGES



Structure
Tanimilast, CAS 1239278-59-1



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ADDITIONAL INFORMATION

Related Product Information for Ceramide Phosphoethanolamines biochemical

Ceramide phosphoethanolamine (CPE) is an analog of sphingomyelin that contains ethanolamine rather than choline as the head group. It is the principal membrane phospholipid in invertebrates such as *Drosophila*, which lacks sphingomyelin. It is only produced in small amounts in mammalian cells, accounting for approximately 0.02 mol% of total phospholipids in mouse testis and brain. In *Drosophila*, CPE is biosynthesized by CPE synthase from ceramide and cytidine diphosphate-ethanolamine in the Golgi lumen. In mammals, it is biosynthesized by sphingomyelin synthase 2 (SMS2) in the plasma membrane and by sphingomyelin synthase-related protein (SMSr) in the endoplasmic reticulum (ER). In *Drosophila*, CPE has a role in glial ensheathment of axons. Disrupting CPE synthesis by depleting SMSr in vitro in mammalian cells leads to an accumulation of ER ceramides, which are then mislocalized to the mitochondria, inducing apoptosis. However, ceramide levels are not altered in transgenic mice lacking SMSr catalytic activity. CPEs (bovine) is a mixture of CPEs with variable N-acyl chain lengths.

References

1. Moretto N, Caruso P, Bosco R, Marchini G, Pastore F, Armani E, Amari G, Rizzi A, Ghidini E, De Fanti R, Capaldi C, Carzaniga L, Hirsch E, Buccellati C, Sala A, Carnini C, Patacchini R, Delcanale M, Civelli M, Villetti G, Facchinetti F. CHF6001 I: a novel highly potent and selective phosphodiesterase 4 inhibitor with robust anti-inflammatory activity and suitable for topical pulmonary administration. *J Pharmacol Exp Ther.* 2015 Mar;352(3):559-67.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/biochemical/ceramide-phosphoethanolamines/227113>