

Lactosyl Ceramide, Bovine

Cat. No. COEC-107

Lot. No. (See product label)

Introduction

Description Lactosyl Ceramide neutral glycosphingolipid (GSL) that is the common precursor of the ganglio-, globo-, globoiso-, lacto-, neolacto-, and muco-series of GSL. Promotes a time- and concentration-dependent proliferation of aortic smooth muscle cells via specific activation of ERK 1 (p44 MAP kinase). Also stimulates Ras-GTP loading, MEK and Raf kinases, p44 MAP kinase, and c-fos expression in human aortic smooth muscle cells.

Applications An inducer of Ras-GTP loading, MEK and Raf kinases, p44 MAP kinase, c-fos expression

Synonyms Ceramide β -lactoside

Product Information

Form Solid

CAS No. 4682-48-8

Molecular Formula C₅₃H₁₀₁NO₁₃

Molecular Weight 960.4

Purity $\geq 98\%$

Boiling Point 300° C

Solubility Soluble in ethanol, methanol, chloroform, and chloroform/methanol (91) (10 mg/ml).