

## 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  $\beta$ -lactoside

### Product Information

#### Form

Solid

#### CAS No.

4682-48-8

#### Molecular Formula

C<sub>53</sub>H<sub>101</sub>NO<sub>13</sub>

#### Molecular Weight

960.4

#### Purity

≥98%

#### Boiling Point

300° C

#### Solubility

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