

## 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>N<sub>13</sub>O<sub>13</sub>

**Molecular Weight** 960.4

**Purity**  $\geq$ 98%

**Boiling Point** 300° C

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