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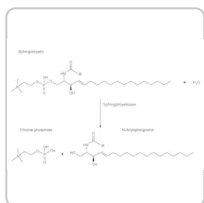
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Documents

↓ FDS

🔍 COO/COA

📄 Fiche des
caractéristiques

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S8633 ▶ **Sigma-Aldrich**

Sphingomyelinase from *Staphylococcus aureus*

★★★★★ (0)

buffered aqueous glycerol solution, 100-300 units/mg protein (Lowry)

Synonyme(s):

Sphingomyelin choline phosphohydrolase, Sphingomyelin phosphodiesterase

Numéro CAS: **9031-54-3**

Numéro de classification
(Commission des enzymes):

3.1.4.12 (BRENDA, IUBMB)

Numéro MDL: **MFCD00132362**

NACRES:

NA.32

Référence	Conditionnement	Disponibilité	Prix	Quantité
S8633-25UN	25 UNITS	✓ Disponible pour expédition le 06 octobre 2022	Détails... 298,00 €	– + 📘
S8633-50UN	50 UNITS	✓ Disponible pour expédition le 06 octobre 2022	Détails... 521,00 €	– + 📘

Demander une commande en gros

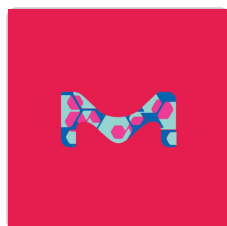
Ajouter au panier

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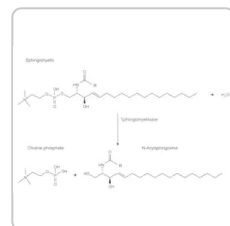


Sigma-Aldrich

567707

Sphingomyelinase, *Staphylococcus aureus*

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Sigma-Aldrich

S9396

Sphingomyelinase from *Bacillus cereus*

buffered aqueous glycerol solution, ≥ 100 units/mg protein (Lowry)

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PROPRIÉTÉS

Forme buffered aqueous glycerol solution

Niveau de qualité 200

specific activity 100-300 units/mg protein (Lowry)

Temp. de stockage 2-8°C

DESCRIPTION

Application

Sphingomyelinase from *Staphylococcus aureus* has been used to:

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Conditionnement

25, 50 units in glass bottle

Actions biochimiques/physiologiques

Bacterial sphingomyelinase is active at neutral pH. When used in cell culture *in vitro*, it hydrolyzes the sphingomyelin on the outer leaflet of the plasma membrane and produces ceramide that is lipid-soluble. Sphingomyelinase is the key enzyme in the sphingomyelinase/ceramide pathway, which is implicated in the pathogenesis of several neurodegenerative disorders.

Initiates the formation of sphingomyelin-based second messengers. Activates MAPK (mitogen-activated protein kinase) and SAPKs (stress-activated protein kinases); generates ceramide from sphingomyelin.

Définition de l'unité

One unit will hydrolyze 1.0 μmol of TNPAL-sphingomyelin per min at pH 7.4 at 37 °C.

Forme physique

Solution in 50% glycerol containing 0.25 M phosphate buffer, pH 7.5

INFORMATIONS SUR LA SÉCURITÉ

Code de la classe de

WGK

Flash Point(F)

Point d'éclair C

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Équipement de protection individuelle

Eyeshields, Gloves, multi-purpose combination respirator cartridge (US)

DOCUMENTATION

Certificat d'analyse

Saisir un numéro de lot pour rechercher un certificat d'analyse (COA).

Numéro de lot

e.g. 023J5431

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Rechercher

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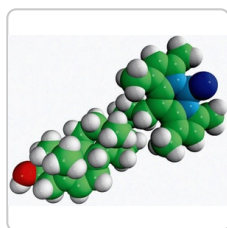
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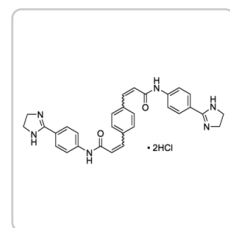
Avanti

810255P

TopFluor® Cholesterol

23-(dipyrrrometheneboron difluoride)-24-norcholesterol, powder

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D1692

GW4869

≥90% (NMR)

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ARTICLES REVUS PAR DES PAIRS

Changes in Serum Sphingomyelin After Roux-en-Y Gastric Bypass Surgery Are Related to Diabetes Status.

Elin Rebecka Carlsson et al.

Frontiers in endocrinology, 9, 172-172 (2018-06-21)

Metabolic surgery is superior to lifestyle intervention in reducing weight and lowering glycemia and recently suggested as treatment for type 2 diabetes mellitus. Especially Roux-en-Y gastric bypass (RYGB) has been focus for much research, but still the mechanisms of action

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Kufor-Rakeb syndrome (KRS) is caused by loss-of-function mutations in ATP13A2 (PARK9) and characterized by juvenile-onset parkinsonism, pyramidal signs, and cognitive decline. Previous studies suggested that PARK9 deficiency causes lysosomal dysfunction and α -synuclein (α -syn) accumulation, whereas PARK9 overexpression suppresses toxicity of

Dietary sericin enhances epidermal levels of glucosylceramides and ceramides with up-regulating protein expressions of glucosylceramide synthase, β -glucocerebrosidase and acidic sphingomyelinase in NC/Nga mice.

Hyunae Kim et al.

Nutrition research (New York, N.Y.), 32(12), 956-964 (2012-12-19)

We have previously reported that dietary sericin improves epidermal dryness with the increased total Ceramide (Cer) in NC/Nga mice, an animal model of atopic dermatitis (AD). In this study, we hypothesized that the increased level of total Cer induced by

ZFP91 disturbs metabolic fitness and antitumor activity of tumor-infiltrating T cells.

Feixiang Wang et al.

The Journal of clinical investigation, 131(19) (2021-08-18)

Proper metabolic activities facilitate T cell expansion and antitumor function; however, the mechanisms underlying disruption of the T cell metabolic program and function in the tumor microenvironment (TME) remain elusive. Here, we show a zinc finger protein 91-governed (ZFP91-governed) mechanism

Identification of a distinct mutation spectrum in the SMPD1 gene of Chinese patients with acid sphingomyelinase-deficient Niemann-Pick disease.

Huiwen Zhang et al.

Orphanet journal of rare diseases, 8, 15-15 (2013-01-30)

Clinical observations and molecular analysis of the SMPD1 gene in Chinese patients with acid sphingomyelinase deficiency Niemann-Pick disease (NPD) are scarce. A cohort of 27 Chinese patients diagnosed with acid sphingomyelinase deficiency, within the past five years, were collected and

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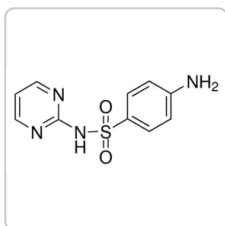
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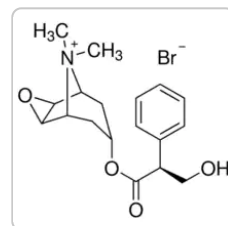
S8626

Sulfadiazine

99.0-101.0%



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Sigma-Aldrich

S8502

(-)-Scopolamine methyl bromide

≥98% (HPLC), powder



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