Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

Recombinant Human Ganglioside GM2 activator(GM2A)

Catalog No: tccp11546

Available Sizes

Size: 1mg

Size: 100μg

Size: 500μg

Specifications

Research Area:
Signal Transduction

Species Reactivity:
Homo sapiens (Human)

Target:
GM2A

Form:
Liquid or Lyophilized powder (remark your requirement when placing the order)

Storage Buffer:
If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol.
If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0

Recommended Dilution:
We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom.
Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C.
Our default final concentration of glycerol is 50%. Customers could use it as reference.

Source:
E.coli

Purity / Grade:

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>85% as determined by SDS-PAGE.

Storage Instruction:
Store at -20°C upon receipt, aliquoting is necessary for mutiple use. Avoid repeated freeze-thaw cycles. liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C

Alternative Names:
Cerebroside sulfate activator protein; ganglioside GM2 activator; Ganglioside GM2 activator isoform short; Ganglioside GM2 activator precursor; GM2 activator; GM2 AP; GM2 ganglioside activator; GM2 ganglioside activator protein; GM2-AP; GM2A; GM2AP; OTTHUMP00000160619; SAP 3; SAP-3; SAP3; SAP3_HUMAN; Shingolipid activator protein 3; Sphingolipid activator protein 3

SwissProt:
P17900

Calculated Molecular Weight:
33.6 kDa

Sequence:
SSFSWDNCDEGKDPAVIRSLTLEPDPIIVPGNVTLSVMGSTSVPLSSPLKVDLVLEKEVAGLWIKIPCTDYIGSCTFEHFCDVLDMLIPTGE
PCPEPLRTYGLPCHCPFKEGTYSLPKSEFVVPDLELPSWLTTGNYRIESVLSSSGKRLGCIKIAASLKGI

Tags:
N-terminal 6xHis-SUMO-tagged

Notes

Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Product Description

This gene encodes a small glycolipid transport protein which acts as a substrate specific co-factor for the lysosomal enzyme beta-hexosaminidase A. Beta-hexosaminidase A, together with GM2 ganglioside activator, catalyzes the degradation of the ganglioside GM2, and other molecules containing terminal N-acetyl hexosamines. Mutations in this gene result in GM2-gangliosidosis type AB or the AB variant of Tay-Sachs disease. Alternative splicing results in multiple transcript variants.

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