A Reliable Research Partner in Life Science and Medicine

Recombinant Human GM2A Protein (Human Cells, His Tag)

Catalog No. PKSH033306

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms Ganglioside GM2 activator; Cerebroside sulfate activator

protein; GM2-AP; Sphingolipid activator protein 3; SAP-3

Species Human

Expression Host

Sequence

Ser32-Ile193

Accession

Calculated Molecular Weight

Observed molecular weight

Tag

HEK293 Cells

Ser32-Ile193

AAH09273.1

18.6 kDa

19-22 kDa

C-His

Bioactivity Not validated for activity

Properties

Purity > 95 % as determined by reducing SDS-PAGE.

Endotoxin < 1.0 EU per μg of the protein as determined by the LAL method.

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C for 3 months.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from a 0.2 µm filtered solution of 20mM Tris-HCl, 150mM NaCl, pH

7.5.

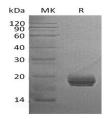
Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

For Research Use Only

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017

Web: www.elabscience.com

Email: techsupport@elabscience.com



Elabscience®

Elabscience Bionovation Inc.

A Reliable Research Partner in Life Science and Medicine

Ganglioside GM2 activator (GM2A) is a small glycolipid transport protein which acts as a substrate specific co-factor for the lysosomal enzyme β -hexosaminidase A (HEXB). HEXB together with GM2A, catalyzes the degradation of the ganglioside GM2, and other molecules containing terminal N-acetyl hexosamines. GM2A accommodate several single chain phospholipids and fatty acids, is a lipid transfer protein that stimulates the enzymatic processing of gangliosides, and also T-cell activation through lipid presentation. It extracts single GM2 molecules from membranes and presents them in soluble form to beta-hexosaminidase A for cleavage of N-acetyl-D-galactosamine and conversion to GM3.

For Research Use Only

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017 Email: techsupport@elabscience.com

Web: www.elabscience.com