

## Ganglioside GM2 Activator Recombinant Protein | GM2A recombinant protein

Recombinant Human GM2A Protein (Human Cells, His Tag)

CATALOG #  
**AAA22124**

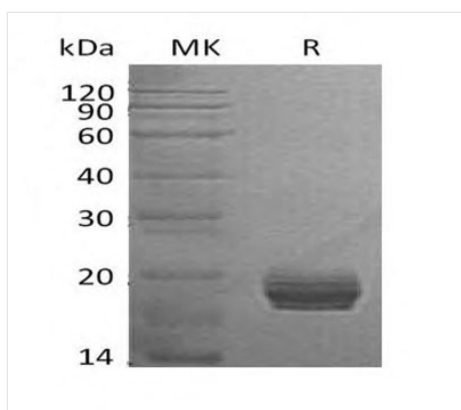
### PRODUCT SYNONYMS

Ganglioside GM2 Activator; Recombinant Human GM2A Protein (Human Cells; His Tag); Ganglioside GM2 activator; Cerebroside sulfate activator protein; GM2-AP; Sphingolipid activator protein 3; SAP-3 Human; GM2A recombinant protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purity/Purification     | >95 % as determined by reducing SDS-PAGE.                                                                                                                                                                                                                |
| Form/Format             | Lyophilized from a 0.2 um filtered solution of 20mM Tris-HCl, 150mM NaCl, pH7.5.                                                                                                                                                                         |
| Sequence                | Ser32-Ile1 93                                                                                                                                                                                                                                            |
| Species                 | Human Cells                                                                                                                                                                                                                                              |
| Tag                     | C-6His                                                                                                                                                                                                                                                   |
| Endotoxin               | < 1.0 EU per ug as determined by the LAL method.                                                                                                                                                                                                         |
| Reconstitution          | We recommend that the vial be centrifuged to opening to bring the contents to the bottom. Do not mix by vortex. It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25mg/mL. Concentration is measured by UV-Vis. |
| Preparation and Storage | Storage: 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.                      |

### IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

|                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for GM2A recombinant protein | Ganglioside GM2 activator (GM2A) is a small glycolipid transport protein which acts as a substrate specific co-factor for the lysosomal enzyme $\beta$ -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. |
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NCBI AND UNIPROT INFORMATION

|                                  |                                              |
|----------------------------------|----------------------------------------------|
| NCBI GI #                        | 39995109                                     |
| NCBI GeneID                      | 2760                                         |
| NCBI Accession #                 | AAH09273.1                                   |
| NCBI GenBank Nucleotide #        | NM_000405.4                                  |
| Molecular Weight                 | Mol Mass: 18.6 kDa<br>AP Mol Mass: 19-22 kDa |
| NCBI Official Full Name          | ganglioside GM2 activator isoform 1          |
| NCBI Official Synonym Full Names | GM2 ganglioside activator                    |
| NCBI Official Symbol             | GM2A                                         |
| NCBI Official Synonym Symbols    | SAP-3; GM2-AP                                |
| NCBI Protein Information         | ganglioside GM2 activator                    |
| UniProt Protein Name             | Ganglioside GM2 activator                    |
| UniProt Gene Name                | GM2A                                         |
| UniProt Synonym Gene Names       | SAP-3                                        |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/gm2a-recombinant-protein/22124>