

## Product datasheet for **TP501862**

### Gm2a (NM\_010299) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse GM2 ganglioside activator protein (Gm2a), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR201862 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	MHRLPLLLLLGLLLAGSVAPARLVPKRLSQLGGFSWDNCDEGKDPVAVIKSLTIQPDPIVPGDVVWSLEG KTSVPLTAPQKVELTVEKEVAGFWVKIPCVLQGLSCSYENICDLIDEYIPPGESCPEPLHTYGLPCHCPF KEGTYSLPTSNFTVPDLELPWLSTGNYRIQSILSSGGKRLGCIKIAASLKGR
	<b>TR</b> TRPLE <b>QKLISEEDLAANDILDYKDDDDKV</b>
Tag:	C-MYC/DDK
Predicted MW:	20.8 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP_034429</u>
Locus ID:	14667
UniProt ID:	<u>Q60648</u> , <u>Q5F1Z8</u>
RefSeq Size:	4257
Cytogenetics:	11 32.13 cM



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**RefSeq ORF:** 582

**Synonyms:** AA408702; AW215435; GM2-AP; SAP-3

**Summary:** Binds gangliosides and stimulates ganglioside GM2 degradation. It stimulates only the breakdown of ganglioside GM2 and glycolipid GA2 by beta-hexosaminidase A. 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. The large binding pocket can accommodate several single chain phospholipids and fatty acids, GM2A also exhibits some calcium-independent phospholipase activity.[UniProtKB/Swiss-Prot Function]