

Active Recombinant Human MAM Domain Containing Glycosylphosphatidylinositol Anchor 1, His-tagged

Cat. No. MDGA1-5686H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MDGA1 protein was expressed in Murine myeloma cell line with a C-terminal 6-His tag. Gln19-Gly931.
Species	Human
Source	Mammalian Cells
Protein Length	19-931 a.a.
Description	MDGA1 is a 140 kDa member of the Ig superfamily of proteins. Human MDGA1 is synthesized as a 955 amino acid (aa) precursor that contains an 18 aa signal sequence, a 914 aa mature chain, and a 23 aa propeptide. The mature chain consists of six Ig-like domains, a fibronectin type III domain (aa 640-739), a MAM domain (aa 751-918), 11 potential sites for N-linked glycosylation, and a GPI anchor (aa 932). Alternative splicing in human MDGA1 produces an isoform variant that shows a 48 aa substitution for aa corresponding to positions 926-955.
Form	Lyophilized from a 0.2 µm filtered solution in PBS.
N-terminal Sequence	Gln19 predicted
Molecular Weight	101.9 kDa
Activity	Measured by its ability to enhance neurite outgrowth of E18 rat embryonic

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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	corticalneurons. Able to significantly enhance neurite outgrowth when immobilized at 7.5-30 µg/ml on a nitrocellulose-coated microplate.
Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	120-140kDa, reducing conditions.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	500 µg/ml in sterile PBS
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	MDGA1 MAM domain containing glycosylphosphatidylinositol anchor 1 [Homo sapiens]
Official Symbol	MDGA1
Synonyms	MDGA1; MAM domain containing glycosylphosphatidylinositol anchor 1; GPIM; MAMDC3; FLJ45018; DKFZp686K0262; DKFZp686L0262; MAM domain-containing glycosylphosphatidylinositol anchor protein 1; GPI and MAM protein; MAM domain-containing protein 3; glycosylphosphatidylinositol-MAM; glycosylphosphatidyl-inositol-MAM; OTTHUMP00000016331; OTTHUMP00000016332
Gene ID	266727

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mRNA Refseq	NM_153487
Protein Refseq	NP_705691
MIM	609626
UniProt ID	Q8NFP4
Chromosome Location	6p21
Function	molecular function

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