

# Active Recombinant Human MAM Domain Containing Glycosylphosphatidylinositol Anchor 2, His-tagged

Cat. No. MDGA2-5687H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Human MDGA2 protein was expressed in Murine myeloma cell line with a C-terminal 6-His tag. Gln21-Asp931.
<b>Species</b>	Human
<b>Source</b>	Mammalian Cells
<b>Protein Length</b>	21-931 a.a.
<b>Description</b>	MDGA2 is a 130 kDa member of the Ig superfamily of proteins. Human MDGA2 is synthesized as a 956 amino acid (aa) precursor that contains a 25 aa signal sequence, a 906 aa mature chain, and a 25 aa propeptide. The mature chain consists of six Ig-like domains, followed by a MAM domain (aa 746-921) and a GPI anchor. In addition, there are eight potential sites for N-linked glycosylation. Mature human MDGA2 shares 98% aa sequence identity with mature mouse and rat MDGA2. MDGA2 is structurally similar to other IgCAMs, such as the L1 family and axonin 1, which have roles in cell adhesion, migration, and process outgrowth.
<b>Form</b>	Lyophilized from a 0.2 µm filtered solution in PBS.
<b>N-terminal Sequence</b>	Gln21 predicted
<b>Molecular Weight</b>	103.2 kDa

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<b>Activity</b>	Measured by its ability to enhance neurite outgrowth of E18 rat embryonic cortical neurons. Able to significantly enhance neurite outgrowth when immobilized at 7.5-30 µg on a nitrocellulose-coated microplate.
<b>Endotoxin Level</b>	<1.0 EU per 1 µg of the protein by the LAL method.
<b>SDS-PAGE</b>	105-125kDa, reducing conditions.
<b>Purity</b>	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.
<b>Reconstitution</b>	200 µg/mL in sterile PBS
<b>Storage</b>	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

<b>Gene Name</b>	MDGA2 MAM domain containing glycosylphosphatidylinositol anchor 2 [ Homo sapiens ]
<b>Official Symbol</b>	MDGA2
<b>Synonyms</b>	MDGA2; MAM domain containing glycosylphosphatidylinositol anchor 2; MAMDC1; c14_5286; MAM domain-containing glycosylphosphatidylinositol anchor protein 2; MAM domain containing 1; MAMDC1; OTTHUMP00000028200; OTTHUMP00000179128; MAM domain-containing protein 1; UNQ8188/PRO23197
<b>Gene ID</b>	161357

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<b>mRNA Refseq</b>	NM_182830
<b>Protein Refseq</b>	NP_878250
<b>MIM</b>	611128
<b>UniProt ID</b>	Q7Z553
<b>Chromosome Location</b>	14q21.2

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