

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

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

SPECIFICATION

Product Overview	Recombinant Human MDGA2 protein was expressed in Murine myeloma cell line with a C-terminal 6-His tag. Gln21-Asp931.
Species	Human
Source	Mammalian Cells
Protein Length	21-931 a.a.
Description	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.
Form	Lyophilized from a 0.2 µm filtered solution in PBS.
N-terminal Sequence	Gln21 predicted
Molecular Weight	103.2 kDa

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Activity	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.
Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	105-125kDa, reducing conditions.
Purity	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	200 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	MDGA2 MAM domain containing glycosylphosphatidylinositol anchor 2 [Homo sapiens]
Official Symbol	MDGA2
Synonyms	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
Gene ID	161357

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

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