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 MDGA2protein was expressed in Murine myeloma cell line with a C-terminal 6-His tag. Gln21-Asp931.
Species	Human
Source	Mammalian Cells
ProteinLength	21-931 a.a.
Description	MDGA2 is a 130 kDamember of the Ig superfamily of proteins. Human MDGA2 is synthesized as a 956amino acid (aa) precursor that contains a 25 aa signal sequence, a 906 aamature chain, and a 25 aa propeptide. The mature chain consists of sixIg-like domains, followed by a MAM domain (aa 746-921) and a GPI anchor. Inaddition, there are eight potential sites for N-linked glycosylation. Maturehuman MDGA2 shares 98% aa sequence identity with mature mouse and rat MDGA2.MDGA2 is structurally similar to other IgCAMS, such as the L1 family andaxonin 1, which have roles in cell adhesion, migration, and processoutgrowth.
Form	Lyophilized from a0.2 μm filtered solution in PBS.
N-terminalSequence	Gln21 predicted
Molecular Weight	103.2kDa

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Activity	Measuredby its ability to enhance neurite outgrowth of E18 rat embryonic corticalneurons. Able to significantly enhance neurite outgrowth when immobilized at7.5-30 μg on a nitrocellulose-coated microplate.
Endotoxin Level	<1.0 EUper 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	200μg/mL in sterile PBS
Storage	Use amanual defrost freezer and avoid repeated freeze-thaw cycles. 12 months fromdate of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterileconditions after reconstitution. 3 months, -20 to -70°C under sterileconditions after reconstitution.

GENE INFORMATION

Gene Name	MDGA2 MAM domain containingglycosylphosphatidylinositol anchor 2 [Homo sapiens]
Official Symbol	MDGA2
Synonyms	MDGA2; MAM domaincontaining glycosylphosphatidylinositol anchor 2; MAMDC1; c14_5286; MAMdomain-containing glycosylphosphatidylinositol anchor protein 2; MAM domaincontaining 1; MAMDC1; OTTHUMP00000028200; OTTHUMP00000179128; MAMdomain-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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