

Active Recombinant Mouse Glycoprotein 6 (platelet), His-tagged

Cat. No. Gp6-5622M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Gp6 protein was expressed in Murine myeloma cell line. Met1-Lys265, with a C-terminal 6-His tag.
Species	Mouse
Source	Mammalian Cells
Protein Length	1-265 a.a.
Description	Gp6 is a 63 kDa platelet/megakaryocyte-specific type I transmembrane glycoprotein of the immunoglobulin superfamily that is an important collagen receptor and initiator of platelet activation, aggregation and thrombus generation. Gp6 is also a secondary receptor required for platelet spreading on laminin. Mouse Gp6 contains a 21 amino acid (aa) signal sequence, a 244 aa extracellular domain (ECD) that has two C-type Ig-like domains followed by a mucin-like, presumably O-glycosylated Ser-Thr-rich region, a 21 aa transmembrane (TM) domain and a 27 aa cytoplasmic tail. Mouse Gp6 ECD shares 70%, 85%, 69% and 66% aa identity with human, rat, equine and canine Gp6 ECD, respectively.
Form	Lyophilized from a 0.2 µm filtered solution in PBS.
N-terminal Sequence	Gly24
Molecular Weight	27.8 kDa (monomer)

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Activity	Measured by its binding ability in a functional ELISA. When cross-linked with 10 µg/mL of Mouse polyHistidine Monoclonal Antibody. Recombinant Mouse Gp6 binds to Collagen I (coated at 10 µg/mL, 100 µL/well) with an apparent KD < 90 nM.
Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	45-60 kDa, reducing conditions.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	Reconstitute at 400 µg/mL in 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	Gp6 glycoprotein 6 (platelet) [<i>Mus musculus</i>]
Official Symbol	Gp6
Synonyms	Gp6; glycoprotein 6 (platelet); Gpvi; Gm469; 9830166G18Rik; platelet glycoprotein VI; glycoprotein 5
Gene ID	243816
mRNA Refseq	NM_001163014
Protein Refseq	NP_001156486

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UniProt ID	P0C191
Chromosome Location	7
Pathway	Cell surface interactions at the vascular wall; ECM-receptor interaction; GPVI-mediated activation cascade; Hemostasis; Platelet Adhesion to exposed collagen; Platelet activation
Function	collagen binding; receptor activity
PDB rendering based on 2gi7	