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

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

SPECIFICATION

Product Overview	RecombinantMouse Gp6 protein was expressed in Murine myeloma cell line. Met1-Lys265,with a C-terminal 6-His tag.
Species	Mouse
Source	Mammalian Cells
ProteinLength	1-265 a.a.
Description	Gp6 is a63 kDa platelet/megakaryocyte-specific type I transmembrane glycoprotein of the immunoglobulin superfamily that is an important collagen receptor andinitiator of p latelet activation, aggregation and thrombus generation. Gp6 isalso a secondary rece ptor required for platelet spreading on laminin. Mouse Gp6contains 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, presumablyO-glycosylated Ser-Thr-rich region, a 2 1 aa transmembrane (TM) domain and a27 aa cytoplasmic tail. Mouse Gp6 ECD shar es 70%, 85%, 69% and 66% aaidentity with human, rat, equine and canine Gp6 ECD, respectively.
Form	Lyophilized from a0.2 um filtered solution in PBS.
N-terminalSequence	Gly24
MolecularWeight	27.8 kDa (monomer)

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Activity	Measuredby its binding ability in a functional ELISA. When cross-linked with 10 μg/mLof Mouse polyHistidine Monoclonal Antibody. Recombinant Mouse Gp6 binds toCollagen I (coated at 10 μg/mL, 100 μL/well) with an apparent KD < 90 nM.
Endotoxin Level	<1.0EU per 1μg of the protein by the LAL method.
SDS-PAGE	45-60kDa, reducing conditions.
Purity	>95%,by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	Reconstituteat 400μg/mL in PBS.
Storage	Use a manual defrost freezer and avoid repeated freezethawcycles. 12months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °Cunder sterile conditions after reconstitution. 3 months, -20 to -70 °C understerile conditions after reconstitution.

GENE INFORMATION

Gene Name	Gp6 glycoprotein 6 (platelet) [Mus musculus]
Official Symbol	Gp6
Synonyms	Gp6; glycoprotein6 (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 surfaceinteractions at the vascular wall; ECM-receptor interaction; GPVI-mediatedactivation cascade; Hemostasis; Platelet Adhesion to exposed collagen; Plateletactivation
Function	collagen binding; receptoractivity
PDBrendering based on 2gi7	

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