Active Recombinant Mouse Glycoprotein 5 (platelet), His-tagged

Cat. No. Gp5-5621M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Gp5protein was expressed in Murine myeloma cell line with a C-terminal 6-Histag. Met1-Gly522.
Species	Mouse
Source	Mammalian Cells
ProteinLength	1-522 a.a.
Description	Gp5 is an 83 kDatype I transmembrane (TM) glycoprotein of the leucine-rich repeat (LRR)family. It is expressed exclusively within the platelet / megakaryocytelineage, where it noncovalently interacts with other platelet TM LRRproteins, GPIbα/β and GPIX, at a ratio of one GPV to two of each othersubunit. The GPI-V-IX complex tethers platelets to von Willebrand factor onthe surface of injured endothelial cells. Absence of the complex results inBernard-Soulier syndrome, a rare bleeding disorder.
Form	Lyophilized from a0.2 μm filtered solution in PBS.
N-terminalSequence	Gln17
Molecular Weight	57.5 kDa
Activity	Measuredby its binding ability in a functional ELISA. When Recombinant Mouse Gp5

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	is coated at 5 μg/mL, the concentration of RecombinantHuman vWFA2 that produces 50% optimal binding response is found to beapproximately 0.25-1.25 μg/mL
Endotoxin Level	<1.0 EUper 1 μg of the protein by the LAL method.
SDS-PAGE	70-90kDa, reducing conditions
Purity	>95%,by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	Reconstituteat 500 μg/mL in 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	Gp5 glycoprotein 5 (platelet) [Mus musculus]
Official Symbol	Gp5
Synonyms	Gp5;glycoprotein 5 (platelet); GPV; platelet glycoprotein V; GP V; glycoprotein V(platelet); Uncharacterized protein
Gene ID	14729
mRNA Refseq	NM_008148
Protein Refseq	NP_032174

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UniProt ID	Q9QZU3
Chromosome Location	16 B2; 16
Pathway	ECM-receptorinteraction; Formation of Fibrin Clot (Clotting Cascade); GP1b-IX-Vactivation signalling; Hematopoietic cell lineage; Hemostasis; IntrinsicPathway; Platelet Adhesion to exposed collagen; Platelet Aggregation (PlugFormation); Platelet activation
Function	collagen binding

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