

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

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

SPECIFICATION

Product Overview	Recombinant Mouse Gp5 protein was expressed in Murine myeloma cell line with a C-terminal 6-His tag. Met1-Gly522.
Species	Mouse
Source	Mammalian Cells
Protein Length	1-522 a.a.
Description	Gp5 is an 83 kDa type I transmembrane (TM) glycoprotein of the leucine-rich repeat (LRR) family. It is expressed exclusively within the platelet / megakaryocyte lineage, where it noncovalently interacts with other platelet TM LRR proteins, GPIIb/β and GPIX, at a ratio of one GPV to two of each other subunit. The GPIIb-IX complex tethers platelets to von Willebrand factor on the surface of injured endothelial cells. Absence of the complex results in Bernard-Soulier syndrome, a rare bleeding disorder.
Form	Lyophilized from a 0.2 μm filtered solution in PBS.
N-terminal Sequence	Gln17
Molecular Weight	57.5 kDa
Activity	Measured by its binding ability in a functional ELISA. When Recombinant Mouse Gp5

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	is coated at 5 µg/mL, the concentration of Recombinant Human vWFA2 that produces 50% optimal binding response is found to be approximately 0.25-1.25 µg/mL
Endotoxin Level	<1.0 EU per 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	Reconstitute at 500 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	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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