

Active Recombinant Human GP1BA Protein, C-His-tagged

Cat. No. GP1BA-12H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GP1BA Protein, fused to His-tag at C-terminus, was expressed in NS0.
Species	Human
Source	NS0
ProteinLength	His17-Leu505
Description	Glycoprotein Ib (GP Ib) is a platelet surface membrane glycoprotein composed of a heterodimer, an alpha chain and a beta chain, that is linked by disulfide bonds. The Gp Ib functions as a receptor for von Willebrand factor (VWF). The complete receptor complex includes noncovalent association of the alpha and beta subunits with platelet glycoprotein IX and platelet glycoprotein V. The binding of the GP Ib-IX-V complex to VWF facilitates initial platelet adhesion to vascular subendothelium after vascular injury, and also initiates signaling events within the platelet that lead to enhanced platelet activation, thrombosis, and hemostasis. This gene encodes the alpha subunit. Mutations in this gene result in Bernard-Soulier syndromes and platelet-type von Willebrand disease. The coding region of this gene is known to contain a polymorphic variable number tandem repeat (VNTR) domain that is associated with susceptibility to nonarteritic anterior ischemic optic neuropathy.
Form	Lyophilized from a 0.2 µm filtered solution in PBS.
Bio-activity	Measured by its binding ability in a functional ELISA. Recombinant Human

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	CD42b/GPIb alpha is immobilized at 0.5 µg/mL (100 µL/well), the concentration of Recombinant Human vWF-A2 that produces 50% optimal binding response is approximately 6-36 ng/mL in the presence of ristocetin.
Molecular Mass	Predicted Molecular Mass: 54.7 kDa SDS-PAGE: 95-120 kDa, reducing conditions
N-terminal Sequence Analysis	His17
Endotoxin	<0.10 EU per 1 µg of the protein by the LAL method.
Purity	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	Reconstitute at 100 µg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Related Research Areas	Coagulation Myeloid Lineage Markers Platelet Adhesion Molecules Platelet Markers

GENE INFORMATION

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Gene Name	GP1BA glycoprotein Ib platelet subunit alpha [Homo sapiens (human)]
Official Symbol	GP1BA
Synonyms	BSS; GP1B; VWDP; CD42B; GPIbA; BDPLT1; BDPLT3; DBPLT3; GPIbalpha; CD42b-alpha
Gene ID	2811
mRNA Refseq	NM_000173.7
Protein Refseq	NP_000164.5
MIM	606672
UniProt ID	P07359

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