



G005

GpIb α , single sulphated

Product name:	GpIb α , single sulphated
GenBank accession:	NP_000164
Source:	Recombinant
Purification:	IMAC, IEC and SEC
Formulation:	PBS, sterile
Storage:	< -20 °C

Available Product Sizes

Catalog number	Size
G005 – 0.05 mg	0.05 mg
Bulk	On request

Protein Sequence

marplctlllmatlagalagshpicevskvashlevncdkr
qltalppdlpkdttihlsenlytfslatlmpytrltqlnldrce
ltkqlvqdgtilpvlgtldlshnqlqslpllgqtlpaltvldvsfnrl
tslplgalrglgelqelylkgnelktlppglltptpkleklsann
qltelpagllnglenldtlllqenslytipkgffgshllpfafihg
npwlcnceilyfrrwlqdnaenvyvwkqgvdkamtsn
vasvqcdnsdkfpvykypgkcgptlgdegdtdlydyype
edtegdkvraahhhhhh*

Description

Glycoprotein Ib α is part of the platelet receptor Glycoprotein Ib-XI-V complex. The Glycoprotein Ib-XI-V complex mediates binding of platelets to sites of vascular damage and also initiates signaling events within the platelet that lead to enhanced platelet activation, thrombosis, and hemostasis.

This product consists of residues 17-306 of glycoprotein Ib α and contains the binding sites for Von Willebrand Factor, thrombin and botrocetin. The two N-linked glycosylation sites, Asn37 and Asn175, have been removed by mutation to glutamine. In this product one of the three tyrosine residues at positions 292, 294 and 295 is sulfated.

Residues 17-306 of human GpIb α were cloned into the pUPE expression vector and the recombinant protein was over-expressed in HEK293E cells using the rPEX[®] platform. The recombinant protein was purified to homogeneity (figure 1, CoA). The calculated molecular weight of recombinant human GpIb α , residues 17-306, is 33.5 kDa and it contains a C-terminal hexahistidine tag. Each vial contains 50 μ g GpIb α .

Use, Storage and stability

Recombinant GpIb α should be stored at -80 °C (stable for at least 8 years). The buffer contains PBS without preservative. After thawing the product should be stored in appropriate small aliquots at -20 °C or -80 °C (stable for at least 1 year).

Precaution

1. For professional use only.
2. There might be a reduced pressure in the vial. Before opening the vial, equilibrate at 4 °C or ambient temperature. Briefly spin to settle the contents at the bottom of the vial and carefully open the vial.
3. As with any product derived from biological sources, proper handling procedures should be used.
4. The product can be used in various applications and settings. The user should evaluate the fitness-of-use.

References

- E.G. Huizinga, S. Tsuji, R.A.P. Romijn, M.E. Schiphorst, P.G. de Groot, J.J. Sixma and P. Gros, Structures of glycoprotein Ibalpha and its complex with von Willebrand factor A1 domain, Science, 2002, 279(5584): 1176-1179.

PRODUCT USE LIMITATIONS, WARRANTY, DISCLAIMER

The product is not for use in humans.

The product can only be used for internal research and development.

The product cannot be used in any commercial activity (commercial use includes, but is not limited to, 1) preparation of growth media with the purpose of sale, 2) R&D activities for third parties). The product cannot be resold.

Please contact bd@ipatherapeutics.com to inquire about further information.

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