

Recombinant Human Integrin alpha-IIb(ITGA2B),partial

Catalog No: #AP70454

Package Size: #AP70454-1 20ug #AP70454-2 100ug #AP70454-3 1mg

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Description

Product Name	Recombinant Human Integrin alpha-IIb(ITGA2B),partial
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:639-887aaSequence Info:Partial
Other Names	GPalpha IIb ;GPIIbPlatelet membrane glycoprotein IIb; CD41
Accession No.	P08514
Calculated MW	43 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	CVPQLQLTASVTGSPLLVGADNVLELQMDAANEGEGAYEAEALAVHLPQGAHYMRALSNVEGFERLICNQKKE NETRVVLCELGNPMKKNAQIGIAMLVSVGNLEEAGESVSFQLQIRSKNSQNPNSKIVLLDVPVRAEAQVELRG NSFPASLVVAAEEGEREQNSLDSWGPKEHTYELHNNPGTVNGLHLSIHLPGQSQPSDLLYILDIQPQGGLQ CFPQPPVNPLKVDWGLPIPSPSPIHPAHHKR
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Integrin alpha-IIb,beta-3 is a receptor for fibronectin, fibrinogen, plasminogen, prothrombin, thrombospondin and vitronectin. It recognizes the sequence R-G-D in a wide array of ligands. It recognizes the sequence H-H-L-G-G-A-K-Q-A-G-D-V in fibrinogen gamma chain. Following activation integrin alpha-IIb,beta-3 brings about platelet,platelet interaction through binding of soluble fibrinogen. This step leads to rapid platelet aggregation which physically plugs ruptured endothelial cell surface.

References

Heterozygous ITGA2B R995W mutation inducing constitutive activation of the alphaIIbbeta3 receptor affects proplatelet formation and causes congenital macrothrombocytopenia.Kunishima S., Kashiwagi H., Otsu M., Takayama N., Eto K., Onodera M., Miyajima Y., Takamatsu Y., Suzumiya J., Matsubara K., Tomiyama Y., Saito H.Blood 117:5479-5484(2011)Research Topic:Cardiovascular

Note: This product is for in vitro research use only and is not intended for use in humans or animals.