

ITGA2B, ITGB3

Native Human Platelet Glycoprotein IIb/IIIa

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|---------------------------------|---|------------------|----------------|
| Catalog No. | CSI20171A CSI20171B | Quantity: | 1.0 mg 2 mg |
| Alternate Names: | Integrin alpha-IIb, Integrin beta-3 | | |
| Description: | Platelet membrane glycoproteins IIb and IIIa (GPIIb and GPIIIa), also known as integrin $\alpha_{IIb}\beta_3$ is an integrin complex found on platelets. 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-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. | | |
| UniProt ID: | P08514, P05106 | | |
| Gene ID: | 3674, 3690 | | |
| Source: | Human plasma | | |
| Molecular Weight: | GPIIb: disulfide-linked subunits 125 kDa, 23 kDa, reducing conditions GPIIIa: monomer 108 kDa, reducing conditions | | |
| Formulation: | Liquid in 0.02M Tris-HCl, 0.1M NaCl, 0.1% Triton X-100, 0.001M CaCl ₂ , 0.05% NaN ₃ , 50% glycerol, pH 7.4 | | |
| Purity: | >95% by SDS-PAGE analysis | | |
| Concentration: | ≥ 1.0 mg/ml, lot specific | | |
| Extinction Coefficient: | $E^{0.1\%}_{280nm} = 0.91$ | | |
| Storage & Stability: | Store at -80°C for up to 1 year. Upon initial thaw, prepare working aliquots and store at -80°C. Avoid repeated freeze-thaw cycles. | | |
| Certification: | Non-Infectious Disease Certification: Non-reactive for HIV and HCV by FDA approved methods. However, because no test method can offer complete assurance that infectious agents are absent, this material should be handled at Bio-Safety Level 2 (BSL 2) as recommended for potentially infectious human serum or blood specimen in the CCD/NIH manual "Biosafety in Microbiological and Biomedical Laboratories", 2009. | | |

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