

## ITGA2B, ITGB3

### Native Human Platelet Glycoprotein IIb/IIIa

<b>Catalog No.</b>	CSI20171A CSI20171B	<b>Quantity:</b>	1.0 mg 2 mg
<b>Alternate Names:</b>	Integrin alpha-IIb, Platelet membrane glycoprotein IIb, GPalpha IIb, GPIIb, Integrin beta -3, Platelet membrane glycoprotein IIIa, GPIIIa, CD61		
<b>Description:</b>	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.		
<b>UniProt ID:</b>	P08514, P05106		
<b>Source:</b>	Human plasma		
<b>Molecular Weight:</b>	GPIIb: disulfide-linked subunits 125 kDa, 23 kDa, reducing conditions GPIIIa: monomer 108 kDa, reducing conditions		
<b>Formulation:</b>	0.02M Tris-HCl, 0.1M NaCl, 0.1% Triton X-100, 0.001M CaCl <sub>2</sub> , 0.05% NaN <sub>3</sub> , 50% glycerol, pH 7.4		
<b>Purity:</b>	>95% by SDS-PAGE analysis		
<b>Concentration:</b>	≥ 1.0 mg/ml, lot specific		
<b>Extinction Coefficient:</b>	$E^{0.1\%}_{280nm} = 0.91$		
<b>Storage &amp; Stability:</b>	Store at -80°C for up to 1 year. Upon initial thaw, prepare working aliquots and store at -80°C. <b>Avoid repeated freeze-thaw cycles.</b>		
<b>Certification:</b>	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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Cell Sciences®  
65 Parker Street  
Unit 11  
Newburyport, MA 01950

Toll Free: 888-769-1246  
Phone: 978-572-1070  
Fax: 978-992-0298

E-mail: [info@cellsciences.com](mailto:info@cellsciences.com)  
Website: [www.cellsciences.com](http://www.cellsciences.com)