

Recombinant Human PDGF Rβ Fc Chimera

Catalog Number: 385-PR

DESCRIPTION					
Source	Mouse myeloma cell line, NS0-derived human PDGF R beta protein				
	Human PDGF Rβ Leu33-Phe530 (Glu241Asp) Accession # P09619	ENIEGRMD	Human IgG ₁ (Pro100-Lys330)	6-His tag	
	N-terminus C-term				
N-terminal Sequence Analysis	Leu33				
Predicted Molecular Mass	84 kDa (monomer)				

SPECIFICATIONS		
SDS-PAGE	94-124 kDa, reducing conditions	
Activity	Measured by its ability to inhibit the biological activity of PDGF-BB using NR6R-3T3 mouse fibroblast cells. Raines, E.W. <i>et al.</i> (1985) Methods Enzymol. 109 :749. The ED ₅₀ for this effect is 1-3 μg/mL in the presence of 50 ng/mL Recombinant Human PDGF-BB (Catalog # 220-BB) .	
Endotoxin Level	<0.10 EU per 1 µg of the protein by the LAL method.	
Purity	>97%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.	
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.	

PREPARATION AND STORAGE		
Reconstitution	Reconstitute at 500 µg/mL in sterile PBS containing at least 0.1% human or bovine serum albumin.	
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.	
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. • 12 months from date of receipt, -20 to -70 °C as supplied.	
	 1 month, 2 to 8 °C under sterile conditions after reconstitution. 	

• 3 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

PDGF is a major serum mitogen that can exist as a homo or hetero-dimeric protein consisting of disulfide-linked PDGF-A and PDGF-B chains. The PDGF-AA, PDGF-BB and PDGF-AB isoforms have been shown to bind to two distinct cell surface PDGF receptors with different affinities. Where as PDGF R α binds all three PDGF isoforms with high affinity, PDGF R β binds PDGF-BB only with high-affinity. Both PDGF R α and PDGF R β are members of the class III subfamily of receptor tyrosine kinases (RTK) that also includes the receptors for M-CSF, SCF and FIt3 ligand. All class III RTKs are characterized by the presence of five immunoglobulin-like domains in their extracellular region and a split kinase domain in their intracellular region. PDGF binding induces receptor homo-and hetero-dimerization and signal transduction. The expression of the α and β receptors is independently regulated in various cell types. Recombinant soluble PDGF R β binds PDGF with high affinity and is potent PDGF antagonist.

References:

1. Heldin, C.H. and L. Claesson-Welsh (1994) in Guidebook to Cytokines and Their Receptors, Nicola, N.A. ed. Oxford University Press, New York, p. 202.

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