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32-12285: Human Pleiotrophin

Gene :	PTN
Gene ID :	5764
Uniprot ID :	P21246
Alternative Name :	Pleiotrophin, Heparin-binding brain mitogen, Heparin-binding growth factor 8, Heparin-binding growth-associated molecule, Heparin-binding neurite outgrowth-promoting factor 1, Osteoblast-specific factor 1

Description

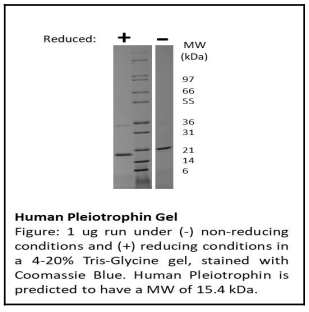
Source: Genetically modified E.coli.
Predicted MW:Â Monomer, 15.4 kDa (137 aa)
Pleiotrophin (PTN) is a heparin-binding growth factor that has mitogenic effects on fibroblast, epithelial, and endothelial cells. PTN is made by many tissues, but is predominantly secreted by nervous tissue during development. PTN induces neurite outgrowth and is involved in tumor growth and metastasis. PTN binds with low affinity to the cell surface receptor nucleolin to inhibit HIV-1 infection. PNT also binds the receptor protein tyrosine phosphatase type Z (PTPRZ), syndecan-3, and anaplastic lymphoma kinase (ALK) receptors.

Product Info

Amount :	20 µg / 100 µg
Purification :	Reducing and Non-Reducing SDS PAGE at >= 95%
Content :	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, pH 7.5 Sterile water at 0.1 mg/mL
Storage condition :	Store at -20°C
Amino Acid :	MGKKEKPEKK VKKSDCGEWQ WSVCVPTSGD CGLGTREGTR TGAECKQTMK TQRCKIPCNW KKQFGAECKY QFQAWGECDL NTALKTRTGS LKRALHNAEC QKTVTISKPC GKLTKPKPQA ESKKKKKEGK KQEKMLD

Application Note

Endotoxin: Less than 0.1 ng/ÃÂµg (1 IEU/ÃÂµg) as determined by LAL test.
Centrifuge vial before opening, Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80ÃÂ°C and avoid repeat freeze thaws. Upon reconstitution, a small amount of visible precipitate can be expected. A 10% overfill has been added to the total material vialed to compensate for this loss. ÃÂ ÃÂ



Human Pleiotrophin Gel
Figure: 1 ug run under (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Human Pleiotrophin is predicted to have a MW of 15.4 kDa.