Recombinant Human PTN Protein

Cat. No. PTN-232H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PTN Protein without tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	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.
Bio-activity	No biological activity data is available at this time.
Molecular Mass	Monomer, 15.4 kDa (137 aa)
AA Sequence	MGKKEKPEKKVKKSDCGEWQWSVCVPTSGDCGLGTREGTRTGAECKQTMKTQR CKIPCNWKKQFGAECKYQFQAWGECDLNTALKTRTGSLKRALHNAECQKTVTISKP CGKLTKPKPQAESKKKKKEGKKQEKMLD
Endotoxin	≤1 EUs/μg, Kinetic LAL
Purity	≥95%, Reducing and Non-Reducing SDS PAGE

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Stability	12 months from date of receipt when stored at -20 to -80 centigrade as supplied. 1 month when stored at 4 centigrade after reconstituting as directed. 3 months when stored at -20 to -80 centigrade after reconstituting as directed.
Storage	Storage Prior to Reconstitution: -20 centigrade
Storage Buffer	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, pH 7.5
Reconstitution	Sterile water at 0.1 mg/mL
Shipping	Room temperature
Instructions	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 -80 centigrade and avoid repeat freeze thaws.

GENE INFORMATION

Gene Name	PTN pleiotrophin [Homo sapiens (human)]
Official Symbol	PTN
Synonyms	PTN; pleiotrophin; NEGF1, neurite growth promoting factor 1; HBGF8; HBNF; heparin binding growth factor 8; HBBM; OSF-1; HB-GAM; HBGF-8; HBNF-1; osteoblast-specific factor 1; heparin-binding brain mitogen; heparin-binding growth factor 8; heparin affin regulatory protein; neurite growth-promoting factor 1; heparin-binding growth-associated molecule; heparin-binding neurite outgrowth-promoting factor 1; pleiotrophin (heparin binding growth factor 8, neurite growth-promoting factor 1); HARP; NEGF1;

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Gene ID	5764
mRNA Refseq	NM_002825
Protein Refseq	NP_002816
MIM	162095
UniProt ID	P21246

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