

Recombinant Human PTN, His-tagged

Cat. No. PTN-3694H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Total 152 AA. MW: 17.3 kDa. N-Terminal His-tag and thrombin cleavage site 16 AA (highlighted).
Species	Human
Source	E.coli
Description	PTN (Osteoblast-Specific Factor-1, OSF-1) contains 136 amino acid residues. The sequence is very rich in cationic amino acids (24% of the residues); lysine cluster sequences are found in the N-terminal and C-terminal ends of the structure.
Form	Filtered (0,4 µm) and lyophilized in 0.5 mg/mL in 0.1 M phosphate buffer, 0.1 M NaCl, PH 7.2.
Research topic	Bone and cartilage metabolism; Cytokines and chemokines and related molecules
Purity	>95%
Reconstitution	Add PBS pH 7.2 to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.
Applications	ELISA; Western blotting
Quality Control Test	BCA to determine quantity of the protein; SDS PAGE to determine purity of the

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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	protein
Sequences of amino acids	MKHHHHHHHM LVPRGSGKKE KPEKKVKKSD CGEWQWSVCV PTSGDCGLGT REGTRTGAEC KQTMKTQRCK IPCNWKKQFG AECKYQFQAW GECDLNTALK TRTGSLKRAL HNAECQKTVT ISKPCGKLT PKPQAESKKK KKEGKKQEK LD
Storage	Store lyophilized protein at -20°C. Lyophilized protein remains stable until the expiry date when stored at -20°C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -80°C for long term storage. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after one week at 4°C.
GENE INFORMATION	
Gene Name	PTN pleiotrophin [Homo sapiens]
Official Symbol	PTN
Synonyms	PTN; pleiotrophin; HARP; HBNF; HBGF8; NRGF1; pleiotrophin; HBBM; OSF-1; HB-GAM; HBGF-8; HBNF-1; OTTHUMP00000208521; OTTHUMP00000208522; osteoblast-specific factor 1; heparin-binding brain mitogen; heparin binding growth factor 8; 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)
Gene ID	5764
mRNA Refseq	NM_002825
Protein Refseq	NP_002816

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MIM	162095
UniProt ID	P21246
Chromosome Location	7q33
Pathway	Syndecan-3-mediated signaling events
Function	growth factor activity; heparin binding; protein phosphatase inhibitor activity

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