Recombinant Human PTN, His-tagtged

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
45-1 Ramsey Road, Shirley, NY 11967, USA

	protein
Sequences of amino acids	MKHHHHHHHM LVPRGSGKKE KPEKKVKKSD CGEWQWSVCV PTSGDCGLGT REGTRTGAEC KQTMKTQRCK IPCNWKKQFG AECKYQFQAW GECDLNTALK TRTGSLKRAL HNAECQKTVT ISKPCGKLTK PKPQAESKKK KKEGKKQEKM 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; NEGF1; 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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA