

## Recombinant Human PTN, His-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Total 152 AA. MW: 17.3 kDa. N-Terminal His-tag and thrombin cleavage site 16 AA (highlighted).
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	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.
<b>Form</b>	Filtered (0,4 µm) and lyophilized in 0.5 mg/mL in 0.1 M phosphate buffer, 0.1 M NaCl, PH 7.2.
<b>Research topic</b>	Bone and cartilage metabolism; Cytokines and chemokines and related molecules
<b>Purity</b>	>95%
<b>Reconstitution</b>	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.
<b>Applications</b>	ELISA; Western blotting
<b>Quality Control Test</b>	BCA to determine quantity of the protein; SDS PAGE to determine purity of the

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 Email: [info@creative-biomart.com](mailto: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](#)

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

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