9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

# Pleiotrophin Human, His

*Pleiotrophin Human Recombinant, His Tag*
*NTR0071*

## Product Overview

| | |
|---|---|
| Name | Pleiotrophin Human, His |
| **Description** | |
| Pleiotrophin Human Recombinant, His Tag | |
| Accession (Primary) | P21246 |
| **Synonyms** | |
| PTN, Heparin Affin Regulatory Protein, HARP, Heparin-binding growth factor-8, HBGF-8, Osteoblast-Specific Factor-1, OSF-1, Heparin-binding growth-associated molecule, HB-GAM, HBNF-1 Heparin-binding brain mitogen, Heparin-binding neurite outgrowth-promoting factor 1, HBBM, NEGF1. | |
| **Introduction** | |
| Pleiotrophin (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. The OSF-1 gene was shown by Northern blotting analysis to be expressed in mouse calvarial osteoblast-enriched cells and in mouse brain tissues, but not in thymus, spleen, kidney, liver, lung, testis or heart. Pleiotrophin has the ability to promote adhesion, migration, expansion, and differentiation of human osteoprogenitor cells. In addition to certain types of cancer, the embryonic growth and differentiation factor pleiotrophin is found also in adults in inflammatory diseases. In osteoarthritis, pleiotrophin is especially expressed in early stages, and its concentrations in the synovial fluid could serve as a marker for the progress of the disease. Pleitrophin might be involved in cartilage repair in osteoarthritis, in particular, in earlier stages. | |
| **Source** | |
| Escherichia Coli. | |
| **Physical Appearance** | |
| Filtered White lyophilized (freeze-dried) powder. | |
| **Formulation** | |
| Filtered and lyophilized from 0.5 mg/ml in 0.1M phosphate buffer and 0.1M NaCl, pH 7.2. | |
| **Stability** | |
| Store lyophilized protein at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C. | |

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**Purity**

Greater than 95% as determined by SDS-PAGE.

**Amino acid sequence**

MKHHHHHHHM LVPRGS GKKE KPEKKVKKSD CGEWQWSVCV PTSGDCGLGT REGTRTGAEC KQTMKTQRCK IPCNWKKQFG AECKYQFQAW GECDLNTALK TRTGSLKRAL HNAECQKTVT ISKPCGKLTK PKPQAESKKK KKEGKKQEKM LD.

**Solubility**

Add PBS pH 7.2 and let the lyophilized pellet dissolve completely.

**Precautions**

Pleiotrophin Human, His is for research use only and not for use in diagnostic or therapeutic procedures.

## Target Information: ( P21246 )