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DATASHEET

Recombinant human Pleiotrophin protein

Product overview

Name Recombinant human Pleiotrophin protein

Cat No HB7515

Biological description Heparin-binding cytokine that signals diverse functions, including lineage-specific differentiation of glial

progenitor cells, neurite outgrowth, and angiogenesis.

Species of origin human

Alternative names Recombinant Human Pleiotrophin, 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.

Purity >97%

Description Heparin-binding cytokine

Solubility & Handling

Storage instructions -20 °C

 $\textbf{Solubility overview} \qquad \qquad \textbf{To make a stock solution, reconstitute the lyophilized Pleiotrophin in sterile 18M} \\ \Omega cm \ water \ at \ a$

concentration $> 100 \mu g/ml$, which can then be diluted to make a working solution

 $\textbf{Handling} \qquad \qquad \bullet \text{ Solutions should be made in sterile deionized water (not less than 100 $\mu g/ml$). This solution can}$

then be further diluted with other aqueous solutions.

• Following reconstitution, solutions may be stored at 4 °C and are useable for around 2-7 days and for future use store at -18 °C.

For long term storage, a carrier protein (0.1% HSA or BSA) should be added to stock solutions.
Solutions should be aliquoted into tightly sealed vials for storage at -20°C. Freeze-thaw cycles should be prevented.

Important This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not

for human or veterinary use.

Chemical Data

UniProt ID P21246 Molecular Weight 15.3 Source E. Coli.

Appearance White lyophilized powder (sterile filtered & freeze-dried) **Formulation** Lyophilized from a 0.2µm filtered solution in PBS (pH 7.4)

References

Pleiotrophin: a cytokine with diverse functions and a novel signaling pathway

Deuel TF *et al* (2002) Arch Biochem Biophys 397(2) **PubMedID** 11795867

Pleiotrophin and its receptor protein tyrosine phosphatase beta/zeta as regulators of angiogenesis and cancer

Papadimitriou E et al (2016) Biochim Biophys Acta 1866(2)

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Pleiotrophin, a multifunctional angiogenic factor: mechanisms and pathways in normal and pathological angiogenesis

Perez-Pinera P $\it{et~al}$ (2008) Curr Opin Hematol 15(3)

PubMedID 18391787