

**Product:** **Animal Free Recombinant Human PTN**  
**Cat #: 300-844P**  
Powder

Description	<p>Pleiotrophin, or PTN, is a growth factor that has mitogenic effects on fibroblast, epithelial, and endothelial cells as well as induces neurite outgrowth. PTN is made by many tissues, but predominantly by the tissues of the nervous system during development. PTN shows a high affinity for heparin. Alternate names: HBBM, HBGF-8, NRG1, HARP</p> <p>This product is produced with no animal-derived raw products, animal free equipment and animal free protocols.</p>
MW	Non-glycosylated protein, containing 137 amino acids, with a molecular weight of 15.4 kDa.
Physical Appearance	Sterile filtered white lyophilized (freeze-dried) powder.
Source	<i>E. coli</i>
Formulation	Recombinant human PTN is lyophilized with 10 mM Na <sub>2</sub> PO <sub>4</sub> , pH 7.5.
Reconstitution	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.
Stability	Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.
Biological Activity	The activity can be determined by its ability to induce neurite outgrowth of embryonic rat neurons at concentrations between 3-8 µg/mL. Activity for this product is yet to be determined.
Endotoxin Level	Measured by kinetic LAL analysis and is typically ≤ 1 EU/µg protein.
AA Sequence	MGKKEKPEKK VKKSDCGEWQ WSVCVPTSGD CGLGTREGTR TGAECKQTMK TQRCKIPCNW KKQFGAECKY QFQAWGECDL NTALKTRTGS LKRALHNAEC QKTVTISKPC GKLTKPKPQA ESKKKKKEGK KQEKMLD

Purity greater than 98% determined by Reducing and Non-reducing SDS-PAGE.

Protein content determined by Reducing and Non-reducing SDS-PAGE.

**THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!**