

GFH55AF Recombinant Human Pleiotrophin (Animal-Free)

Description

Pleiotrophin is a heparin-binding growth factor that has mitogenic effects on fibroblast, epithelial, and endothelial cells. Pleiotrophin is made by many tissues, but is predominantly secreted by nervous tissue during development. Pleiotrophin induces neurite outgrowth and is involved in tumor growth and metastasis. Pleiotrophin binds with low affinity to the cell surface receptor nucleolin to inhibit HIV-1 infection and can also bind the receptor protein tyrosine phosphatase type Z (PTPRZ), syndecan-3, and anaplastic lymphoma kinase (ALK) receptors.

This product is produced with no animal derived raw products. All processing and handling employs animal free equipment and animal free protocols.

Length	137 aa
Molecular Weight	15.4 kDa
Source	E. coli
Accession Number	P21246
Purity	≥95% determined by reducing and non-reducing SDS-PAGE

Specifications

Alternative Names	PTN, HBBM, HBGF-8, NRG1, HARP
Biological Activity	Human Pleiotrophin is fully biologically active when compared to standard. The activity is determined by the ability to induce neurite outgrowth of embryonic rat neuros at concentrations between 3 - 8 µg/ml. There is no data currently available.
Endotoxin Level	≤1.00 EU/µg as measured by kinetic LAL
Formulation	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, pH 7.5
AA Sequence	MGKKEKPEKK VKKSDCGEWQ WSVCVPTSGD CGLGTREGTR TGAECKQTMK TQRCKIPCNW KKQFGAECKY QFQAWGECDL NTALKTRTGS LKRALHNAEC QKTVTISKPC GKLTKPKPQA ESKSKKKEGK KQEKMLD

Preparation and Storage

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 0.1 mg/ml, which can be further diluted into other aqueous solutions.
Stability and Storage	12 months from date of receipt when stored at -20°C to -80°C as supplied. 1 month when stored at 4°C after reconstituting as directed. 3 months when stored at -20°C to -80°C after reconstituting as directed.