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Recombinant Mouse Pleiotrophin/PTN Protein

Catalog No.: RP00791 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	19242	P63089

Tags
C-6×His

Synonyms
Pleiotrophin; PTN; Heparin-binding brain mitogen; HBBM; Heparin-binding growth factor 8; HBGF-8; Osteoblast-specific factor 1; OSF-1;

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE.

Calculated MW	Observed MW
16.1 kDa	18-20 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4.Contact us for customized product form or formulation.

Reconstitution
Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.

Contact

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Background

Pleiotrophin (PTN) is a secreted, strongly heparinbinding, developmentally regulated cytokine. PTN is a highlyconserved protein □ Human, mouse, rat, canine, porcine, equine and bovine PTN share 98% aa sequenceidentity or greater. PTN and midkine share 50% amino acid (aa) sequence identity, share some functions, andconstitute a family. During development, PTN is involved in development of brain, bone, and organsundergoing branching morphogenesis. PTN causes PTPRB dimerization and inactivates its phosphatase activity,which allows increased tyrosine phosphorylation of its substrates. Increased expression of PTN is correlatedwith neuronal development or stresses such as brain ischemia and Parkinson’s disease.

Basic Information

Description
Recombinant Mouse Pleiotrophin/PTN Protein is produced by Human Cells expression system. The target protein is expressed with sequence (Gly33-Asp168) of mouse Pleiotrophin/PTN (Accession #P63089) fused with a 6×His tag at the C-terminus.

Bio-Activity
Measured by its ability to enhance neurite outgrowth of E16-E18 rat embryonic cerebral cortical neurons. Optimal neurite outgrowth was observed when neurons were plated on 96 well culture plates that had been pre-coated with 100 μL/well of Recombinant Mouse Pleiotrophin/PTN at 3-8 μg/mL.

Shipping
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.
Avoid repeated freeze/thaw cycles.

Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

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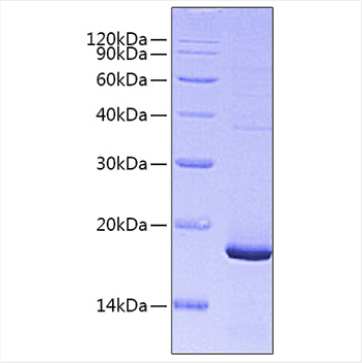
Validation Data



Recombinant Mouse Pleiotrophin/PTN Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.

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