

Recombinant Mouse Pleiotrophin/PTN/HB-GAM Protein (His Tag)



Catalog Number:PKSM041292

Note: Centrifuge before opening to ensure complete recovery of vial contents.

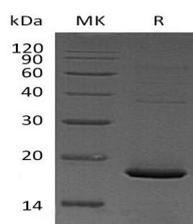
Description

Synonyms	Pleiotrophin;PTN;Heparin-binding brain mitogen;HBBM;Heparin-binding growth factor 8;HBGF-8;Osteoblast-specific factor 1;OSF-1;HARP;HB-GAM;HBBN;HBNF;OSF;Osf-1;Osf1
Species	Mouse
Expression Host	HEK293 Cells
Sequence	Gly33-Asp168
Accession	P63089
Calculated Molecular Weight	16.1 kDa
Observed molecular weight	18 kDa
Tag	C-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



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Background

Pleiotrophin (PTN) is a secreted, strongly heparin-binding, developmentally regulated cytokine. PTN and midkine share 50% amino acid (aa) sequence identity, share some functions, and constitute a family. PTN is a highly conserved protein? human, mouse, rat, canine, porcine, equine and bovine PTN share 98% aa sequence identity or greater. During development, PTN is involved in development of brain, bone, and organs undergoing branching morphogenesis. PTN causes PTPRB dimerization and inactivates its phosphatase activity, which allows increased tyrosine phosphorylation of its substrates. Increased expression of PTN is correlated with neuronal development or stresses such as brain ischemia and

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Parkinson's disease.

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