Recombinant Human Pleiotrophin (rHuPTN)

PrimeGene Technical DataSheet

Catalog Number:	107-21
Source:	*Escherichia coli*
Molecular Weight:	Approximately 15.3 kDa, a single non-glycosylated polypeptide chain containing 136 amino acids.
Size:	5μg/ 100μg/ 500μg/ 1mg
AA Sequence:	GKKEKPEKKV KKSDCGEWQW SVCVPTSGDC GLGTREGTRT GAECKQTMKT QRCKIPCNWK KQFGAECKYQ FQAWGECDLN TALKTRTGSL KRALHNAECQ KTVTISKPCG KLTKPKPQAE SKKKKKEGKK QEKMLD
Purity:	≥95% by SDS-PAGE analysis.
Biological Activity:	Fully biologically active when compared to standard. The biological activity was measured by its ability to enhance neurite outgrowth of E16-E18 rat embryonic cortical neurons, when neurons were plated on 96 well culture plates that had been pre-coated with 100 μl/well of a solution of 5-10 μg/ml rHuPTN.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 μm filtered solution in 1 × PBS, pH7.0, 0.02% Tween-20.
Endotoxin:	Less than 0.1 EU/μg of rHuPTN as determined by LAL method.
Reconstitution:	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.
Shipping:	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage:	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 3 months, -20 to -70 °C under sterile conditions after reconstitution.
Usage:	This material is offered by Shanghai PrimeGene Bio-Tech for research, laboratory or further evaluation purposes. **NOT FOR HUMAN USE**.

Human Pleiotrophin

Pleiotrophin, also named heparin-binding brain mitogen (HBBM), is belonging to the heparin-binding proteins family and is encoded by the PTN gene in humans. Pleiotrophin is expressed in an activity-dependent manner in the hippocampus. Pleiotrophin expression is low in other areas of the adult brain, but it can be induced by ischemic insults. The cell surface-expressed nucleolin is a low affinity receptor for PTN binding to cells and it is also implicated in PTN entry into cells by an active process. Human pleiotrophin shares above 98 % amino acid sequence identity with bovine, rat and murine.

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