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Datasheet for ABIN7197415
Pleiotrophin Protein (PTN)

1 Image

Overview

Quantity:	100 µg
Target:	Pleiotrophin (PTN)
Origin:	Mouse
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Purpose:	Recombinant Mouse Pleiotrophin/PTN/HB-GAM Protein (Active)
Sequence:	Met1-Asp168
Characteristics:	A DNA sequence encoding the mouse PTN (P63089) (Met1-Asp168) was expressed.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.
Biological Activity Comment:	Measured by its binding ability in a functional ELISA. Immobilized mouse PTN at 10 µg/ml (100 µl/well) can bind rat SDC1-Fc , The EC50 of rat SDC1-Fc is 0.4-1.1 µg/ml.

Target Details

Target:	Pleiotrophin (PTN)
Alternative Name:	Pleiotrophin/PTN/HB-GAM (PTN Products)
Background:	Background: HB-GAM belongs to the pleiotrophin family. During embryonic and early postnatal

Target Details

development, HB-GAM is expressed in the central and peripheral nervous system and also in several non-neural tissues, notably lung, kidney, gut and bone. While in the adult central nervous system, it is expressed in an activity-dependent manner in the hippocampus where it can suppress long term potentiation induction. HB-GAM has a low expression in other areas of the adult brain, but it can be induced by ischemic insults, or targeted neuronal damaged in the entorhinal cortex or in the substantia nigra pars compacta. It is structurally related to midkine and retinoic acid induced heparin-binding protein and has a high affinity for heparin. HB-GAM binds anaplastic lymphoma kinase (ALK) which induces MAPK pathway activation, an important step in the anti-apoptotic signaling of PTN and regulation of cell proliferation. It also functions as a secreted growth factor and induces neurite outgrowth and which is mitogenic for fibroblasts, epithelial, and endothelial cells.

Synonym: 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, Osf1, Osf1

Molecular Weight:	15.3 kDa
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UniProt:	P63089
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Pathways:	RTK Signaling
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Application Details

Restrictions:	For Research Use only
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Handling

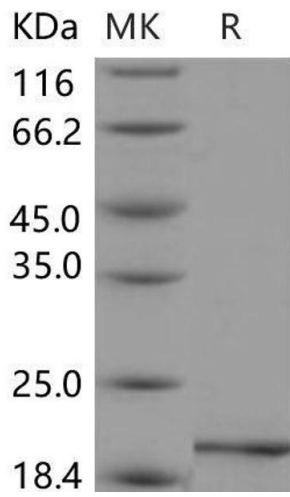
Format:	Lyophilized
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Reconstitution:	Please refer to the printed manual for detailed information.
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Buffer:	Lyophilized from sterile 20 mM Tris, 1M NaCl, pH 7.4
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Storage:	4 °C, -20 °C, -80 °C
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Storage Comment:	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.
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Western Blotting

Image 1.