Recombinant Rat PDGF-B Protein (His Tag)

Catalog No. PKSR040476

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

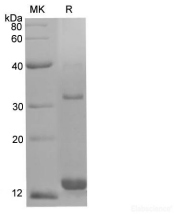
Description

Synonyms	Becaplermin, PDGF 2, PDGF B chain, PDGF subunit B, PDGF-2, PDGF2, Pdgfb, PDGFB, Platelet derived growth factor 2, Platelet-derived growth factor B chain, Platelet-derived growth factor beta polypeptide, Platelet-derived growth factor subunit B, Proto-oncogene c-Sis, SIS, SSV
Species	Rat
Expression Host	E.coli
Sequence	Ser74-Thr182
Accession	Q05028-1
Calculated Molecular Weight	12.2 kDa
Observed molecular weight	14.5 kDa
Tag	N-His
Bioactivity	Testing in progress

Properties

Purity	> 85 % as determined by reducing SDS-PAGE.
Endotoxin	Please contact us for more information.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4., 5% trehalose, 5% mannitol, 0.01% tween-80. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the print
Reconstitution	Please refer to the printed manual for detailed information.

Data



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Background

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The protein encoded by this gene is a member of the platelet-derived growth factor family. The four members of this family are mitogenic factors for cells of mesenchymal origin and are characterized by a motif of eight cysteines. This gene product can exist either as a homodimer (PDGF-BB) or as a heterodimer with the platelet-derived growth factor alpha polypeptide (PDGF-AB), where the dimers are connected by disulfide bonds. Mutations in this gene are associated with meningioma. Reciprocal translocations between chromosomes 22 and 7, at sites where this gene and that for COL1A1 are located, are associated with a particular type of skin tumor called dermatofibrosarcoma protuberans resulting from unregulated expression of growth factor. Two alternatively spliced transcript variants encoding different isoforms have been identified for this gene.

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