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For Research Use Only

Recombinant Human PDGFaa

Catalog Number: HZ-1215 HEK293 expressed Endotoxin-free Animal-component free

Technical Specifications

Species:
human

Expression:
HEK293

Activity:
Typically ≤ 10 ng/mL EC50

Purity:
>95%

Endotoxin:
<1 EU/μg

Molecular Mass:
35, 40 and 45 kDa, homodimer, glycosylated

Formulation:
10 mM HOAc, See Certificate of Analysis for details

Gene ID:
5154

Reconstitution Buffer

Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile 10 mM HOAc containing 0.1% endotoxin-free recombinant human serum albumin (HSA).

Stability and Storage

Lyophilized proteins are stable for 1 year from the date of receipt if stored between (-20°C) and (-80°C). Upon reconstitution we recommend that the solution can be stored at (4°C) for short term or at (-20°C) to (-80°C) for long term. Repeated freeze thaw cycles should be avoided with reconstituted products.

Background

PDGFaa is a member of the platelet-derived growth factor family. Four members of this family are mitogenic factors for cells of mesenchymal origin, and they are characterized by a motif of eight cysteines. PDGFaa plays an essential role in the regulation of embryonic development, cell proliferation, cell migration, and chemotaxis. It is also required for a normal lung alveolar septum formation during embryogenesis, development of the gastrointestinal tract, and spermatogenesis. PDGFaa is also involved in oligodendrocyte development and l myelination process in the spinal cord and cerebellum PMID: 29408302; 29282077; 27002148).

Synonyms

PDGF 1, PDGF A, PDGF subunit A, PDGF1, PDGFA, PDGFaa

For technical support and original validation data for this product please contact:
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1(312) 455-8498 (outside USA)
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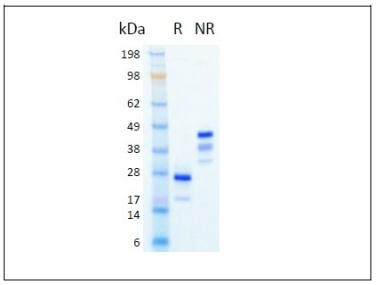
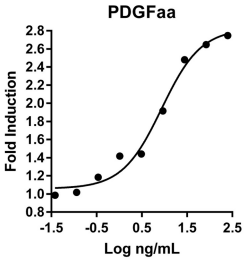
Selected Validation Data



The protein was resolved by SDS-polyacrylamide gel electrophoresis and the gel was stained with Coomassie blue.



The activity was determined by the dose-dependent stimulation of the proliferation of 3T3 cells using the Promega CellTiter96® Aqueous Non-Radioactive Cell Proliferation Assay.