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PDGF-CC, human recombinant protein
Platelet-Derived Growth Factor-CC
Catalog # PBV10813r

Specification

PDGF-CC, human recombinant protein - Product info

Primary Accession	Q9NRA1
Calculated MW	**25 kDa KDa**

PDGF-CC, human recombinant protein - Additional Info

Gene ID	**56034**
Gene Symbol	**PDGFC**
Other Names	
Platelet-Derived Growth Factor-CC	
Gene Source	**Human**
Source	**E. Coli**
Assay&Purity	**SDS-PAGE; ≥98%**
Assay2&Purity2	**HPLC;**
Recombinant	**Yes**
Sequence	**MVVDLNLLTE EVRLYSCTPR NFSVSIREEL KRTDTIFWPG CLLVKRCGGN CACCLHNCNE CQCVPSKVTK KYHEVLQLRP KTGVRGLHKS LTDVALEHHE ECDCVCRGST GG**

Target/Specificity
PDGFC

Application Notes
Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Format
Lyophilized powder

Storage
-20°C; Sterile filtered through a 0.2 micron filter. Lyophilized from 5 mM Sodium citrate, pH 3.0

PDGF-CC, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry

- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PDGF-CC, human recombinant protein - Images

PDGF-CC, human recombinant protein - Background

The platelet-derived growth factor (PDGF) family of heparin-binding growth factors consists of five known members, denoted PDGF-AA, PDGF-BB, PDGF-AB, PDGF-CC and PDGF-DD. The mature and active form of these proteins, an anti-parallel disulfide-linked dimer of two 12-14 kDa polypeptide chains, is obtained through proteolytic processing of biologically inactive precursor proteins, which contain an N-terminal CUB domain and a PDGF/VEGF homologous domain. The PDGFs interact with two related protein tyrosine kinase receptors, PDGFR-α and PDGFR-β, and are potent mitogens for a variety of cell types, including smooth muscle cells, connective tissue cells, bone and cartilage cells, and certain tumor cells. They play an important role in a number of biological processes, including hyperplasia, chemotaxis, embryonic neuron development, and respiratory tubules epithelial cell development. Mature PDGFs are stored in platelet α-granules and are released upon platelet activation. PDGF-AA, -AB, -BB and –CC signal primarily through the PDGF-Rα receptor, whereas PDGF-DD interacts almost exclusively with the PDGF-Rβ receptor. Recombinant human PDGF-CC is a 25kDa protein consisting of two identical disulfide-linked 112 amino-acid polypeptide chains.

PDGF-CC, human recombinant protein - References

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