

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

PDGF-CC, human recombinant protein - Product info

Primary Accession [O9NRA1](#)
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	MVVDLNLTE EVRLYSCTPR NFSVSIREEL KRTDTIFWPG CLLVKRCGGN CACCLHNCNE CQCVPSKVT 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 Cytometry](#)
- [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-R α receptor, whereas PDGF-DD interacts almost exclusively with the PDGF-R β 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

Tsai Y.J., et al. Biochim. Biophys. Acta 1492:196-202(2000).
Hamada T., et al. FEBS Lett. 475:97-102(2000).
Li X., et al. Nat. Cell Biol. 2:302-309(2000).
Gilbertson D.G., et al. J. Biol. Chem. 276:27406-27414(2001).
Zhao J., et al. Submitted (DEC-2007) to the EMBL/GenBank/DDBJ databases.