# Recombinant Mouse CXCL4/PF4 Protein(Trx Tag)

**Catalog Number: PDEM100173**

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

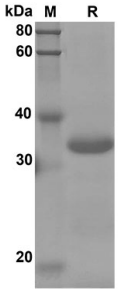
## Description

| | |
|---|---|
| **Species** | Mouse |
| **Source** | E.coli-derived Mouse CXCL4/PF4 protein Val30-Ser105, with an N-terminal Trx |
| **Mol_Mass** | 28.2 kDa |
| **Accession** | Q9Z126 |
| **Bio-activity** | Not validated for activity |

## Properties

| | |
|---|---|
| **Purity** | > 90% as determined by reducing SDS-PAGE. |
| **Endotoxin** | < 10 EU/mg of the protein as determined by the LAL method |
| **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 a 0.2 μm filtered solution in PBS with 5% Trehalose and 5% Mannitol. |
| **Reconstitution** | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis. |

## Data




SDS-PAGE analysis of Mouse CXCL4/PF4 proteins, 2 μg/lane of Recombinant Mouse CXCL4/PF4 proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 34 KD

## Background

Platelet factor 4, also known as CXCL4, is expressed in megakaryocytes and stored in the α-granules of platelets. Recombinant human PF-4 is a 7.8 kDa protein containing 70 amino acid residues, including the four highly conserved residues present in CXC chemokines. Platelet factor 4 can be antiproliferative and antiangiogenic, at least in part via interfering with FGF2 and VEGF heparin binding and thus inhibiting their signaling. However, it can also be proinflammatory and proatherogenic through multiple effects on monocytes, macrophages and endothelial cells.

**For Research Use Only**