

# PRODUCT DATA SHEET



Bioworld Technology, Inc.

## Recombinant PF-4/CXCL4, Human

Catalog Number: BK0328-50µg

Source: HEK 293

Quantity: 50µg

### Description:

Platelet factor 4, also known as CXCL4, is expressed in megakaryocytes and stored in the  $\alpha$ -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.

### Molecular Weight:

~7.8 kDa, observed by non-reducing SDS-PAGE.

### Purity:

> 95% as analyzed by SDS-PAGE and HPLC.

### Biological Activity:

ED50 < 10 µg/ml, measured by its ability to inhibit human FGF-basic-dependent proliferation of NR6R 3T3 mouse fibroblast cells.

### Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

### Formulation:

Lyophilized after extensive dialysis against PBS.

### AA Sequence:

EAEEDGDLQCLCVKTTTSQVRPRHITSLEVIKAGP  
HCPTAQLIATLKNRKRKICLDLQAPLYKKIHK-  
KLLES

### Endotoxin:

< 0.2 EU/µg, determined by LAL method.

### Reconstitution:

Reconstituted in ddH2O or PBS at 100 µg/ml.

### Storage:

Lyophilized recombinant human platelet factor 4 remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, human platelet factor 4 should be stable up to 1 week at 4 °C or up to 2 months at -20 °C.

### Usage:

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