

Human Platelet Factor 4(Purified) Reference standard

Cat. No. PF4-71H Lot. No. (See product label)

SPECIFICATION

Product Overview

Species Human

Enzyme Unit Each ampoule contains 400 International Units.

Usage

No attempt should be made to weigh out any portion of the freeze-dried material prior to reconstitution. The total contents of the ampoule should be reconstituted with 1.0ml distilled water and dissolved by gentle mixing. No attempt should be made to weigh out any portion of the freeze-dried material. The reconstituted standard should be used as soon as possible and unused material should be discarded.

Notes

This preparation is not for administration to humans. The preparation contains material of human origin, and either the final product or the source materials, from which it is derived, have been tested and found negative for HBsAg, anti-HIV and HCV RNA. As with all materials of biological origin, this preparation should be regarded as potentially hazardous to health. It should be used and discarded according to your own laboratory's safety procedures. Such safety procedures should include the wearing of protective gloves and avoiding the generation of aerosols. Care should be exercised in opening ampoules or vials, to avoid cuts.

Stability

Reference materials are held at Creative Biomart within assured, temperature-controlled storage facilities. Reference Materials should be stored on receipt as indicated on the label. PF4 activity which had been stored at 37 °C, 45 °C, and 56 °C was compared with samples of the same material which had been stored at -20 °C.

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From the Arrhenius equation relating degradation rate to absolute temperature, the predicted loss of activity at -20 °C is 0.01% per year (upper 95% confidence limit: 0.149% per year).

Storage

Unopened ampoules should be stored in the dark at or below –20°C. Please note: because of the inherent stability of lyophilized material, Creative Biomart may ship these materials at ambient temperature.

GENE INFORMATION

Gene Name PF4 platelet factor 4 [Homo sapiens];

Official Symbol PF4

Synonyms PF4; platelet factor 4; chemokine (C X C motif) ligand 4; CXCL4; SCYB4; iroplact; oncostatin-A; C-X-C motif chemokine 4; chemokine (C-X-C motif) ligand 4; PF-4; MGC138298;

Gene ID 5196

mRNA Refseq NM_002619

Protein Refseq NP_002610

MIM 173460

UniProt ID P02776

Chromosome Location 4q12-q21

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Pathway

CXCR3-mediated signaling events, organism-specific biosystem; Cell surface interactions at the vascular wall, organism-specific biosystem; Chemokine receptors bind chemokines, organism-specific biosystem; Chemokine signaling pathway, organism-specific biosystem; Chemokine signaling pathway, conserved biosystem; Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; Common Pathway, organism-specific biosystem;

Function

chemokine activity; heparin binding;

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