ChromaTec GmbH Walther-Rathenau-Straße 49a D-17489 Greifswald Tel.: +49-3834-515176 Fax: +49-3834-515178 E-mail: info@chromatec.de



Platelet Factor 4 (PF4) – mouse, recombinant

[PF4-mr]

Properties*

Product # [PF4-mr]
Species mouse

Source Escherichia coli

Mol wt 8.0 kDa UniProt # Q9Z126

Purity > 95% as determined by SDS-PAGE (silver staining)

AA sequence MGPEESDGDLSCVCVKTISSGIHLKHITSLEVIKAGR

HCAVPQLIATLKNGRKICLDRQAPLYKKVIKKILES

Product sizes $50 \mu g$, $100 \mu g$, $200 \mu g$ (different sizes are available on request)

Quality control SDS-Page, Western Blot, N-terminal sequencing and

MALDI-TOF-MS

Physical form Lyophilized in PBS (0.22 µm filtered), carrier free

(different buffers are available on request)

Reconstitution Reconstitute carefully in A. dest. (1µl/µg PF4). Adjust

the protein concentration with PBS. Do not vortex.

Shipping Ambient temperature

Storage Store dark in working aliquots at -20°C to -80°C. Avoid

repeated freezing and thawing.

Stability Lyophilisate is stable for at least 12 month at -20°C.

Description

Platelet Factor 4 (PF4; also known as CXCL4) is synthetized in megakaryocytes and platelets. PF4 is biologically active in the tetrameric form, promotes blood coagulation and is also important in wound healing and inflammation. PF4, together with heparin (PF4-heparin complex) is an important antigen of antibodies inducing heparin-induced thrombocytopenia (HIT) in humans. Mouse (murine) PF4 shares 64% sequence identity with human PF4.

^{*}Please note that the properties of this product (structure, antigenicity, function etc.) may alter under different experimental conditions. If changes (buffers, pH etc.) are made, the responsibility is transferred from the seller to the customer. The material is neither intended or tested for clinical tests nor certified for human use.











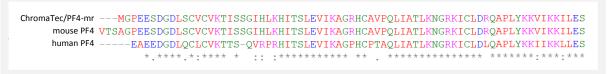
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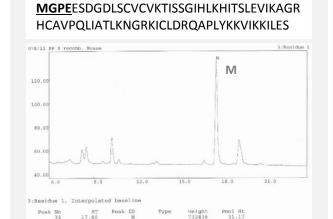
Platelet Factor 4 (PF4) - mouse, recombinant

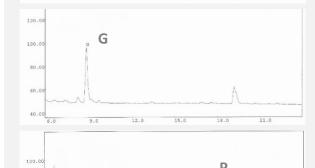
[PF4-mr]

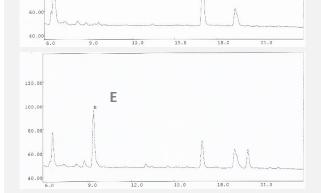
Sequence Alignment (Clustal Omega)



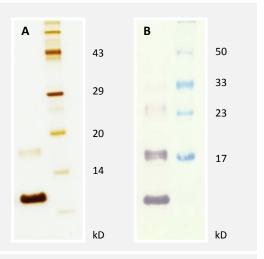
N-terminal sequencing: PF4-mr







SDS-Page & Western Blot: PF4-mr



A) SDS-Page (15% PAA, silver staining) and B) Western Blot of 1 µg PF4-mr: A) Recombinant mouse PF4 (PF4-mr) appears as a monomer and a slight dimer band under denaturing conditions. B) Monomeric PF4-mr and its multimers were detected using PF4 antibodies (Antibodies-Online, # ABIN 1078451) and alkaline phosphatase conjugated secondary antibodies.

Publications referencing this product:

Schulze A, Jensch I, Krauel K, et al. New insights in heparin-induced thrombocytopenia by the use of fluid-phase assays to detect specifically platelet factor 4/heparin complex antibodies and antibody-secreting cells. Thrombosis research. 2014;134(1):174–81.

Jaax ME, Krauel K, Marschall T, et al. Complex formation with nucleic acids and aptamers alters the antigenic properties of platelet factor 4. Blood. 2013;122(2):272–81.

Krauel K, Pötschke C, Weber C, et al. Platelet factor 4 binds to bacteria, inducing antibodies cross-reacting with the major antigen in heparin-induced thrombocytopenia. Blood. 2011:117(4):1370–8.

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