

Platelet Factor 4 Variant 1 (PF4-V1) – human, recombinant [PF4-V1-hr]

Properties*

| | |
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| Product # | [PF4-V1-hr] |
| Species | human |
| Source | <i>Escherichia coli</i> |
| Mol wt | 8.7 kDa (monomer, including 6 x His tag) |
| UniProt # | P10720 |
| Purity | > 95% as determined by SDS-PAGE |
| AA sequence | MHHHHHHEAEEDGDLQCLCVKTTTSQVRPRHITSLEV IKAGPHCPTAQLIATLKNRGIKICLDLQALLYKKIIEHLES |
| Product sizes | 50 µg, 100 µg, 200 µg (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 <i>A. dest.</i> (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 synthesized in megakaryocytes and platelets. The mature protein of PF4 Variant 1 (PF4-V1 or CXCL4L1) differs from authentic PF4 only in three carboxy-terminal amino acids. PF4-V1 was shown to exhibit different properties and cellular functions compared to PF4, as well as a different subcellular distribution (38 % difference in the amino acid sequence of the signal peptide). PF4-V1-hr (ChromaTec GmbH) is produced recombinantly in *E. coli* and is affinity purified via an N-terminal 6 x His-tag. The monomer of PF4-V1-hr including the 6 x His-tag has a molecular weight of 8.7 kDa.

* Please note that the properties of this product 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.



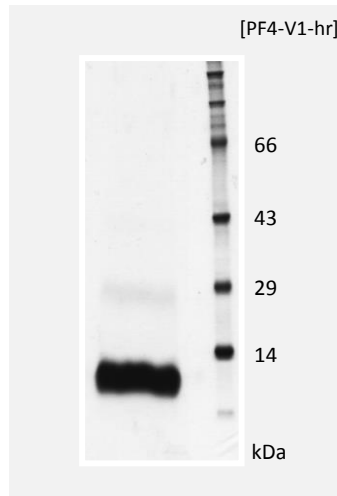
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[PF4-V1-hr]

Sequence Alignment (Clustal Omega)

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PF4-V1-hr (ChromaTec)  MHHHHHHEAEEDGDLQCLCVKTTTSQVRPRHITSLEVIKAGPHCPTAQLIATLKNRKCICLDLQALLYKKI I KEHLES
PF4-V1      (35-104)  -----EAEEDGDLQCLCVKTTTSQVRPRHITSLEVIKAGPHCPTAQLIATLKNRKCICLDLQALLYKKI I KEHLES
PF4         (32-101)  -----EAEEDGDLQCLCVKTTTSQVRPRHITSLEVIKAGPHCPTAQLIATLKNRKCICLDLQAPLYKKI I KKLLES
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SDS-Page



SDS-Page (Coomassie): PF4-V1-hr
Human recombinant PF4-Variant 1 (PF4-V1-hr) appears as a monomer (8.7 kDa) and a slight dimer band under denaturing conditions.

Recent publications referencing this product:

Blanchet X, Cesarek K, Brandt J, et al. Inflammatory role and prognostic value of platelet chemokines in acute coronary syndrome. *Thromb Haemost.*2014; 112(6):1277–87. – Supplementary Material

