

Synonym

Properdin, Complement factor P, CFP, PFC

Source

Human Properdin, His Tag (PRN-H52H3) is expressed from human 293 cells (HEK293). It contains AA Asp 28 - Leu 469 (Accession # P27918-1).

Predicted N-terminus: Asp 28

Molecular Characterization

Properdin(Asp 28 - Leu 469)
P27918-1 Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 50.7 kDa. The protein migrates as 55 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μg by the LAL method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

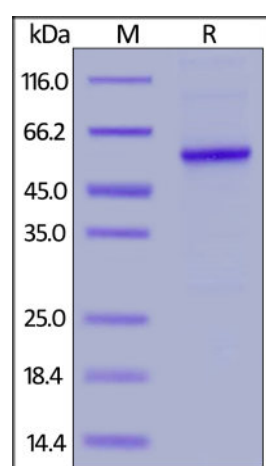
Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

No activity loss was observed after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE

Human Properdin, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

Background

Properdin is also known as Complement factor P, CFP, PFC, a positive regulator of the alternate pathway of complement. It binds to and stabilizes the C3- and C5-convertase enzyme complexes. Properdin is produced by many different leukocyte subsets and circulates as cyclic oligomers of monomeric subunits. Properdin on platelet/granulocyte aggregates (PGA) formation are tightly regulated by Factor H, properdin enhances PGA formation via increased production of C5a, and that inhibition of properdin function has therapeutic potential to limit thromboinflammation in diseases characterized by increased PGA formation.

References

Human Properdin Protein, His Tag

Catalog # PRN-H52H3



- (1) [Blatt AZ, et al. 2016. J Immunol. 196\(11\):4671-4680.](#)
- (2) [Pathan S, et al. 2016. Immunol Rev. 274\(1\):172-190.](#)

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.