

Synonym

PROCR,EPCR,CD201,APC receptor,CCCA,CCD41

Source

Human PROCR, Fc Tag (PRR-H5254) is expressed from human 293 cells (HEK293). It contains AA Ser 18 - Thr 209 (Accession # AAH14451).

Predicted N-terminus: Ser 18

Molecular Characterization

PROCR(Ser 18 - Thr 209) AAH14451	Fc(Pro 100 - Lys 330) P01857
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This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 48.6 kDa. The protein migrates as 60-66 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM Glycine, pH7.5. 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.

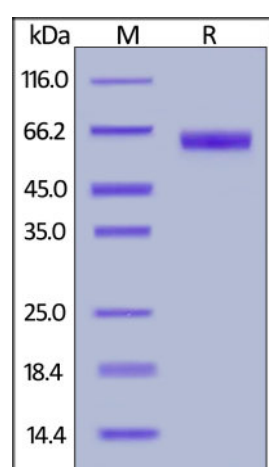
Storage

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 PROCR, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Background

Endothelial protein C receptor (PROCR) is also known as Activated protein C receptor (APC receptor), Endothelial cell protein C receptor, CD antigen CD201. PROCR / EPCR / CD201 is a N-glycosylated protein, with a soluble form exists. PROCR is probably released by a metalloprotease. PROCR seems to have the same activity as the membrane-bound form. PROCR / EPCR / CD201 is expressed strongly in the endothelial cells of arteries and veins in heart and lung. PROCR binds activated protein C and enhances protein C activation by the thrombin - thrombomodulin complex. PROCR plays a role in the protein C pathway controlling blood coagulation.

References

(1) [Fukudome K., et al., 1994, J. Biol. Chem. 269:26486-26491.](#)

(2) [Oganesyan V., et al., 2002, J. Biol. Chem. 277:24851-24854.](#)

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