



LD Biopharma, Inc.
7384 Trade Street, Suite B
San Diego, CA 92121
Tel: 858-876-8266
<http://www.ldbiopharma.com>

- PRODUCT DATA SHEET -

Name of Product: Recombinant Human CD201 Protein
Catalog Number: HRP-2481
Manufacturer: LD Biopharma, Inc.

Introduction

The protein encoded by human endothelial protein C receptor (PROCR, also named as CD201) gene is a receptor for activated protein C, a serine protease activated by and involved in the blood coagulation pathway. It enhances protein C activation by the thrombin-thrombomodulin complex; CD201 plays a role in the protein C pathway controlling blood coagulation. A soluble form of CD201 exists; probably released by a metalloprotease. It seems to have the same activity as the membrane-bound form. CD201 express strongly in the endothelial cells of arteries and veins in heart and lung, less intensely in capillaries in the lung and skin, and not at all in the endothelium of small vessels of the liver and kidney.

Full-length extracellular domain of human CD201 cDNA (18 – 210aa) was constructed with codon optimization gene synthesis and expressed with a human alpha Fetal Protein N-terminal (AFPn) -His-TEV cleavage site Tag (217aa) fusion at its N-terminal in E.coli as inclusion bodies. The final product was refolded using our unique “temperature shift inclusion body refolding” technology and chromatographically purified.

Gene Symbol: CD201 (PROCR ; EPCR; CCCA; CCD41)
Accession Number: NP_006395.2
Species: Human
Size: 25 µg / Vial
Composition: 0.25 mg/ml, sterile-filtered, in 20 mM pH 8.0 Tris-HCl Buffer, with proprietary formulation of NaCl, KCl, EDTA, Sucrose, DTT and others.
Storage: In Liquid. Keep at -80°C for long term storage. Product is stable at 4 °C for at least 30 days.

Key References



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Lecuyer H, et al., *An ADAM-10 dependent EPCR shedding links meningococcal interaction with endothelial cells to purpura fulminans* PLoS Pathog. 14 (4), e1006981 (2018)

Azasi Y, et al., *Infected erythrocytes expressing DC13 PfEMP1 differ from recombinant proteins in EPCR-binding function.* Proc. Natl. Acad. Sci. U.S.A. 115 (5), 1063-1068 (2018)

Yan Q, et al., *Prevalence of protein C receptor (PROCR) is associated with inferior clinical outcome in Breast invasive ductal carcinoma* Pathol. Res. Pract. 213 (9), 1173-1179 (2017)

Stephen J. White et al. *Efficient isolation of peptide ligands for the endothelial cell protein C receptor (EPCR) using candidate receptor phage display biopanning.* Peptides 26 (2005) 1264-1269

Applications

1. May be used for CD201 positive endothelial cell mediated Protein C activation in various signaling pathway regulation study in vitro with this recombinant CD201 protein either as soluble factor or as coating matrix protein.
2. May be used for CD201 protein-protein interaction assay.
3. Potential diagnostic protein, which may be used for cancer prognosis applications.
4. As native human CD201 immunogen for specific antibody production.

Quality Control

Purity: > 90% by SDS-PAGE.

Recombinant Human **AFPn**- CD201 Fusion Protein Sequence (46.5 kD)

**MTLHRNEYGIASILDSYQCTAEISLADLATIFFAQFVQEATYKEVSKMKVDALTAIEKPTGDEQ
SSGCLLENQLPAFLEELCHEKEILEKYGHSDCCSQSEEGRHNCFLAHKKPTPASIPLFQVPEPVT
SCEAYEEDRETFMNFYIYEIARRHPFLYAPTILLWAARYDKIIPSCCKAENAVECFQTKAATVT
KELRESSGGSHHHHGHGSENLYFQ**SQDASDGLQRLHMLQISYFRDPYHVWYQGNASLGGHLTHV
LEGPDTNTTIIQLQLQPEPESWARTQSGLQSYLLQFHGLVRLVHQERTLAFPLTIRCF LGCELP
PEGSRAHVFFEVAVNGSSFVSRPERALWQADTQVTSGVVTFTLQQLNAYNRTRYELREFLEDT
CVQYVQKHISAENTKGSQTSRSYTS