

# Cynomolgus Epcr / PROCR Protein (His Tag)



Sino Biological  
Biological Solution Specialist

Catalog Number: 90229-C08H

## General Information

### Gene Name Synonym:

PROCR

### Protein Construction:

A DNA sequence encoding the cynomolgus PROCR (Met1-Thr209) was expressed with a polyhistidine tag at the C-terminus.

**Source:** Cynomolgus

**Expression Host:** HEK293 Cells

## QC Testing

**Purity:** > 95 % as determined by SDS-PAGE

### Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

### Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

**Predicted N terminal:** Ser 18

### Molecular Mass:

The recombinant cynomolgus PROCR comprises 203 amino acids and has a calculated molecular mass of 23.3 KDa. The apparent molecular mass of it is approximately 35-40 KDa respectively in SDS-PAGE.

### Formulation:

Lyophilized from sterile PBS, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

## Usage Guide

### Storage:

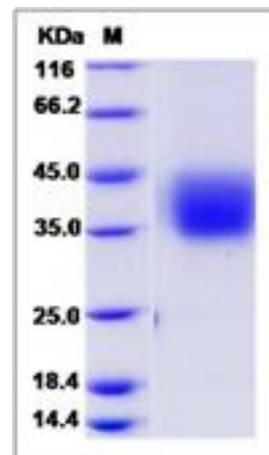
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

**Avoid repeated freeze-thaw cycles.**

### Reconstitution:

Detailed reconstitution instructions are sent along with the products.

## SDS-PAGE:



## Protein Description

Endothelial protein C receptor (EPCR), also known as activated protein C receptor (APC receptor) or PROCR, is a receptor for Protein C. Protein C plays an important role in many metabolism processes in humans and other animals after activated by binding to Endothelial protein C receptor (EPCR). Because of the EPCR is found primarily on endothelial cells (cells on the inside of blood vessels), activated protein C is found mainly near endothelial cells. Protein C is pleiotropic, with two main functions: anticoagulation and cytoprotection. Which function will be performed depend on whether or not protein C remains bind to EPCR after activated. The anticoagulation occurs when it does not. In this case, protein C functions as an anticoagulant by irreversibly proteolytically inactivating Factor Va and Factor VIIIa, turning them into Factor Vi and Factor VIIIi respectively. When still bound to EPCR, activated protein C performs its cytoprotective effects, acting on the effector substrate PAR-1, protease-activated receptor-1. To a degree, APC's anticoagulant properties are independent of its cytoprotective ones, in that expression of one pathway is not affected by the existence of the other.

## References

- 1.Nicolaes GA, *et al.* (2003). Congenital and acquired activated protein C resistance. *Semin Vasc Med.* 3 (1): 33-46.
- 2.Esmon CT. (2003). The protein C pathway. *Chest* 124 (3): 26-32.
- 3.Mosnier LO, *et al.* (2007)The cytoprotective protein C pathway. *Blood.* 109: 3161-72.

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For US Customer: Fax: 267-657-0217 • Tel: 215-583-7898

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