

## Recombinant Human PROCR Protein, His-tagged

Cat. No. PROCR-010H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human PROCR Protein with His tag was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	<p>Thrombomodulin™ is an endothelial specific receptor that forms a complex with thrombin, a protein with procoagulant, inflammatory and anticoagulant effects. The TM/thrombin complex activates protein C (PC) to generate activated protein C (APC) and initiate the APC anticoagulant pathway. APC attenuates thrombin formation through the inactivation, by limited proteolysis, of two significant cofactors of blood clot formation, Factor Va and Factor VIIIa. This process is augmented by the activity of the endothelial cell Protein C receptor (EPCR), which binds both PC and APC with high affinity. The EPCR gene maps to human chromosome 20q11.22 and encodes an anticoagulant that is preferentially expressed on large blood vessel endothelium in the heart and lung with some expression in capillaries in the lung and skin. EPCR, also designated CCD41 in mouse, is a member of the major histocompatibility complex and displays significant homology to CD1. Soluble plasma EPCR is thought to inhibit the membrane-bound EPCR activation of the APC pathway.</p>
<b>Molecular Mass</b>	~28 kDa
<b>AA Sequence</b>	MSQDASDGLQRLHMLQISYFRDPYHVWYQGNASLGGHLTHVLEGPDTNTTIIQLQP LQEPESWARTQSGLQSYLLQFHGLVRLVHQERTLAFPLTIRCFLGCELPPEGSRAHV

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FFEVAVNGSSSFVSRPERALWQADTQVTSGVVTFTLQQLNAYNRTRYELREFLEDTCVQYVQKHISAENTKGSQTSRSYTS

**Purity**

Transferred into competent cells and the supernatant was purified by NI column affinity chromatography and the purity is > 85% (by SDS-PAGE).

**Notes**

For research use only, not for use in diagnostic procedure.

**Storage**

Store at 4 centigrade short term. Aliquot and store at -20 centigrade long term. Avoid freeze-thaw cycles.

**Storage Buffer**

PBS, 4M Urea, pH7.4

## GENE INFORMATION

**Gene Name**

PROCR protein C receptor, endothelial [ Homo sapiens (human) ]

**Official Symbol**

PROCR

**Synonyms**

PROCR; protein C receptor, endothelial; endothelial protein C receptor; CCD41; CD201; EPCR; APC receptor; centrocyclin; CD201 antigen; activated protein C receptor; endothelial cell protein C receptor; cell cycle, centrosome-associated protein; CCCA; bA42O4.2; MGC23024;

**Gene ID**

10544

**mRNA Refseq**

NM\_006404

**Protein Refseq**

NP\_006395

**MIM**

600646

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UniProt ID

Q9UNN8

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