

# Recombinant human GP9 protein

Catalog Number: ATGP1919

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

17-147aa

### UniProt No.

P14770

### NCBI Accession No.

NP\_000165

### Alternative Names

Platelet glycoprotein IX, CD42a, GPIX

## PRODUCT SPECIFICATION

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### Molecular Weight

16.8 kDa (154aa)

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M UREA, 10% glycerol

### Purity

> 85% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE, Denatured

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

GP9 is a small membrane glycoprotein found on the surface of human platelets. It forms a 1-to-1 noncovalent complex with glycoprotein Ib, a platelet surface membrane glycoprotein complex that functions as a receptor for von Willebrand factor. The complete receptor complex includes noncovalent association of the alpha and beta subunits with the protein and platelet glycoprotein V. Defects in this gene are a cause of Bernard-Soulier syndrome, also known as giant platelet disease. These patients have unusually large platelets and have a clinical bleeding tendency. Recombinant human GP9 protein, fused to His-tag at N-terminus, was expressed in E. coli.

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## Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGS>TKDCPSP CTCRALETMG LWVDCRHHGL TALPALPART RHLLANNSL  
QSVPPGAFDH LPQLQTL DVT QNPWHCDCSL TYLRLWLEDR TPEALLQVRC ASPSLAAHGP LGRLTGYQLG SCGWQLQASW  
VRPG

## General References

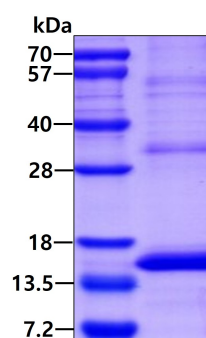
McEwan, P.A., et al. (2011) Blood 118 (19), 5292-5301

Sivaraman, B., et al. (2011) Biomaterials 32 (23), 5365-5370

## DATA

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### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.