# Recombinant human GP9 protein

Catalog Number: ATGP1919

## PRODUCT INFORMATION

**Expression system**
E.coli

**Domain**
17-147aa

**UniProt No.**
P14770

**NCBI Accession No.**
NP_000165

**Alternative Names**
Platelet glycoprotein IX, CD42a, GPIX

## PRODUCT SPECIFICATION

**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**
> 90% 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

**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

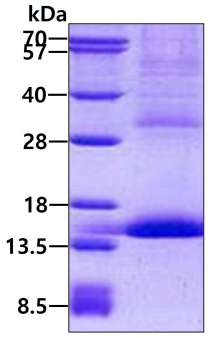
<MGSSHHHHHH SSGLVPRGSH MGS>TKDCPSP CTCRALETMG LWVDCRGHGL TALPALPART RHLLLANNSL QSVPPGAFDH LPQLQTLDVT QNPWHCDCSL TYLRLWLEDR TPEALLQVRC ASPSLAAHGP LGRLTGYQLG SCGWQLQASW VRPG

### General References

McEwan,P.A., et al. (2011) Blood 118 (19), 5292-5301
Sivaraman,B., et al. (2011) Biomaterials 32 (23), 5365-5370

## DATA

### SDS-PAGE




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