

## CD42a/GP9 Protein, Human, Recombinant (hFc)

### General Information

Synonyms:	CD42a;GP-IX;GP9;Glycoprotein 9;GPIX
Protein Construction:	Thr17-Gly147
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P14770
Molecular Weight:	41 kDa (predicted). Due to glycosylation, the protein migrates to 48-50 kDa based on Tris-Bis PAGE result.

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/ $\mu$ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 $\mu$ m filter, containing 20 mM Tris, 250 mM NaCl (pH 8.5). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100  $\mu$ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Filamentous M13 phage extrude from infected Escherichia coli with a tip structure composed of gp7 and gp9. This tip structure is extended by the assembly of the filament composed of the major coat protein gp8. gp7, gp8 and gp9 could also be used for phage display and these phage particles should bind to two different or more surfaces when the modified coat proteins are combined. The gp9 at the phage tip is suitable for the phage display

technology.

Reference

Ploss M, Kuhn A. Membrane insertion and assembly of epitope-tagged gp9 at the tip of the M13 phage. BMC Microbiol. 2011 Sep 26;11:21doi: 10.1186/1471-2180-11-21Erratum in: BMC Microbiol. 2017 Aug 21;17 (1):180. PMID: 21943062; PMCID: PMC3193035.

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