

## Glycophorin C/GYPC Protein, Human (HEK293, His)

Cat. No.:	HY-P76956
Synonyms:	Glycoconnectin; Glycophorin-D; GPD; CD236; GLPC; GPC
Species:	Human
Source:	HEK293
Accession:	P04921 (M1-M57)
Gene ID:	2995
Molecular Weight:	Approximately 8.4 kDa.

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 $\mu$ m filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ $\mu$ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	Glycophorin C (GYPC) protein is a minor sialoglycoprotein found in human erythrocyte membranes. The extracellular domain of GYPC is the probable location for both the blood group Gerbich antigens and receptors utilized by Plasmodium falciparum merozoites. Beyond its involvement in blood group determinants, GYPC plays a crucial role in regulating the stability of red blood cells. This dual functionality positions GYPC at the intersection of structural integrity and immune interactions, underscoring its significance in maintaining erythrocyte stability and its potential involvement in modulating host interactions with the malaria parasite Plasmodium falciparum.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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