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## 32-13252: GYPA Human

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| **Alternative Name :** | Glycophorin A (MNS Blood Group), Glycophorin A (MN Blood Group), Sialoglycoprotein Alpha, MN Sialoglycoprotein, PAS-2, GPA, Erythroid-Lineage-Specific Membrane Sialoglycoprotein, Recombinant Glycophorin A-B Miltenberger-DR, Glycophorin A (Includes MN Blood Group), Â Mi.V Glycoprotein (24 AA), Glycophorin Sta Type C, Glycophorin A, GPA, Glycophorin Erik, Glycophorin MiV, Glycophorin SAT, CD235a Antigen, Glycophorin-A, HGpSta(C), Â HGpMiXI, CD235a, GPErik, HGpMiV, GPSAT, MNS, MN. |

## Description

Source: Sf9, Insect cells.
Sterile Filtered colorless solution.
Glycophorins A & B (GYPA &GYPB) are the main sialoglycoproteins of the human erythrocyte membrane which carry the antigenic determinants for the MN and Ss blood groups. Along with the M or N and S or s antigens which normally occur in all populations, approximately 40 related variant phenotypes were identified. These variants comprise all the variants of the Miltenberger complex and some isoforms of Sta, as well as Dantu, Sat, He, Mg, and deletion variants Ena, S-s-U- and Mk. GYPA is significant for the function of SLC4A1 and is necessary for high activity of SLC4A1. GYPA is involved in translocation of SLC4A1 to the plasma membrane. GYPA is also a receptor for: the influenza virus, Plasmodium falciparum erythrocyte-binding antigen 175 (EBA-175); binding of EBA-175 is dependent on sialic acid residues of the O-linked glycans and is also a receptor for Hepatitis A virus (HAV).
GYPA Human Recombinant produced in Sf9 Insect cells is a single, glycosylated polypeptide chain containing 81 amino acids (20-91a.a.) and having a molecular mass of 9.1kDa. (Molecular size on SDS-PAGE under reducing conditions 18-28kDa).GYPA is expressed with a 9 amino acids His tag at C-Terminus and purified by proprietary chromatographic techniques.

## Product Info

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| **Amount :** | 2 µg / 10 µg |
| **Purification :** | Greater than 85.0% as determined by SDS-PAGE. |
| **Content :** | GYPA protein solution (1mg/ml) containing Phosphate Buffered Saline (pH 7.4) and 10% glycerol. |
| **Storage condition :** | Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles. |
| **Amino Acid :** | ADPLSTTEVA MHTSTSSSVT KSYISSQTND THKRDTYAAT PRAHEVSEIS VRTVYPPEEE TGERVQLAHH FSEPEHHHHH H |