

## Recombinant Human GYPB Protein (Met1-Ala59), C-Fc tagged

Cat. No. GYPB-3066H Lot. No. (See product label)

### SPECIFICATION

|                         |  |
|-------------------------|--|
| <b>Product Overview</b> | Recombinant human GYPB (Met1-Ala59) protein fused with the C-terminal Fc tag was expressed in Mammalian cells.   |
| <b>Species</b>          | Human  |
| <b>Source</b>           | Mammalian Cells  |
| <b>ProteinLength</b>    | Met1-Ala59   |
| <b>Description</b>      | Glycophorins A (GYPA) and B (GYPB) are major sialoglycoproteins of the human erythrocyte membrane which bear the antigenic determinants for the MN and Ss blood groups. GYPB gene consists of 5 exons and has 97% sequence homology with GYPA from the 5' UTR to the coding sequence encoding the first 45 amino acids. In addition to the M or N and S or s antigens, that commonly occur in all populations, about 40 related variant phenotypes have been identified. These variants include all the variants of the Miltenberger complex and several isoforms of Sta; also, Dantu, Sat, He, Mg, and deletion variants Ena, S-s-U-and Mk. Most of the variants are the result of gene recombinations between GYPA and GYPB. Alternate splicing results in multiple transcript variants. |
| <b>Molecular Mass</b>   | 7.49 kDa   |
| <b>Purity</b>           | >90 % as determined by SDS-PAGE.   |
| <b>Notes</b>            | For research use only.   |

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|                       |   |
|-----------------------|---|
| <b>Storage</b>        | Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt. |
| <b>Storage Buffer</b> | Supplied as solution form in PBS, pH 7.5 or lyophilized from PBS, pH 7.5.   |
| <b>Reconstitution</b> | Reconstitute in sterile water for a stock solution.   |
| <b>Shipping</b>       | In general, proteins are provided as lyophilized powder/frozen liquid. They are shipped out with dry ice/blue ice unless customers require otherwise.                                   |

## GENE INFORMATION

|                        |  |
|------------------------|--|
| <b>Gene Name</b>       | GYPB glycophorin B (MNS blood group) [ <i>Homo sapiens (human)</i> ]   |
| <b>Official Symbol</b> | GYPB   |
| <b>Synonyms</b>        | GYPB; glycophorin B (MNS blood group); glycophorin B (includes Ss blood group), glycophorin B (Ss blood group), MNS; glycophorin-B; CD235b; GPB; SS; Ss blood group; glycophorin MiX; glycophorin HeP2; glycophorin MiVI; glycophorin MiIII; sialoglycoprotein delta; SS-active sialoglycoprotein; MNS; PAS-3; GPB.NY; HGpMiX; GpMiIII; HGpMiVI; GYPHe.NY; HGpMiIII; |
| <b>Gene ID</b>         | 2994   |
| <b>mRNA Refseq</b>     | NM_002100  |
| <b>Protein Refseq</b>  | NP_002091  |
| <b>MIM</b>             | 617923   |

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UniProt ID

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