

GYPB Protein, Human (Cell-Free, His)

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| Cat. No.: | HY-P702312 |
| Synonyms: | Glycophorin-B; PAS-3; SS-active sialoglycoprotein; Sialoglycoprotein delta |
| Species: | Human |
| Source: | E. coli Cell-free |
| Accession: | P06028 (L20-A91) |
| Gene ID: | 2994 |
| Molecular Weight: | 10.5 kDa |

PROPERTIES

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| AA Sequence | <p>L S T T E V A M H T S T S S S V T K S Y I S S Q T N G E T G Q L V H R F T V P A</p> <p>P V V I I L I I L C V M A G I I G T I L L I S Y S I R R L I K A</p> |
| Appearance | Lyophilized powder. |
| Formulation | Lyophilized from a 0.22 μ m filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0. |
| Endotoxin Level | <1 EU/ μ g, determined by LAL method. |
| Reconstitution | It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference. |
| 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

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| Background | <p>GYPB is an integral component of the ankyrin-1 complex, a multiprotein assembly crucial for maintaining the stability and shape of the erythrocyte membrane. Within the erythrocyte-specific ankyrin-1 complex, which includes ANK1, RHCE, RHAG, SLC4A1, EPB42, GYPA, GYPB, and AQP1, GYPB contributes to the overall structural integrity of these essential blood cells. Specifically, GYPB interacts via its N-terminal domain with RHAG, facilitating a connection between the (RHAG)₂(RHCE) heterotrimer and the SLC4A1 Band 3 I dimer complexed with GYPA. This intricate interaction network highlights the coordinated efforts of the ankyrin-1 complex in ensuring the stability and shape of the erythrocyte membrane, emphasizing the significance of GYPB in this regulatory mechanism.</p> |
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Caution: Product has not been fully validated for medical applications. For research use only.

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