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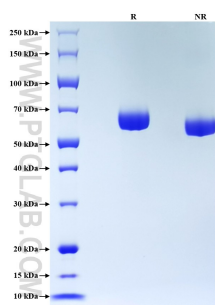
Recombinant Human Alpha 1B-Glycoprotein protein (His Tag)



Catalog Number: Eg1511

Basic Information	Species: Human	Purity: >90 %, SDS-PAGE	Tag: His Tag
Technical Specifications	Purity: >90 %, SDS-PAGE Endotoxin Level: <0.1 EU/ μg protein, LAL method Source: HEK293-derived Human Alpha 1B-Glycoprotein protein Ala22-Ser495 (Accession# P04217-1) with a His tag at the C-terminus. GeneID: 1 Accession: P04217-1 Predicted Molecular Mass: 53.0 kDa SDS-PAGE: 58-70 kDa, reducing (R) conditions Formulation: Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.		
Biological Activity	Not tested		
Storage and Shipping	Storage: It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. • Until expiry date, -20°C to -80°C as lyophilized proteins. • 3 months, -20°C to -80°C under sterile conditions after reconstitution. Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	A1BG, which stands for Alpha-1B-Glycoprotein, is a glycoprotein primarily synthesized by the liver and secreted into the bloodstream. It is an important component of plasma proteins, but its precise physiological function has long remained unclear, earning it the designation of an "orphan" plasma protein. Current research indicates that as a secretory protein, A1BG undergoes significant changes in serum concentration under various disease conditions. Particularly in multiple cancers (such as liver cancer and ovarian cancer), autoimmune diseases, and inflammatory responses, it demonstrates considerable potential as a diagnostic and prognostic biomarker. Although its molecular mechanisms have not yet been fully elucidated, it is hypothesized to be involved in processes such as immune regulation and protease inhibition.		
References	1. Han, Xiuxin et al. Expert opinion on therapeutic targets vol. 27,10 (2023): 1017-1029. 2. El Atab, Ola et al. The Journal of biological chemistry vol. 300,12 (2024): 107910. 3. Wang, Jian et al. Scientific reports vol. 13,1 20730. 25 Nov. 2023. 4. Liang, Yonghui et al. Advanced science (Weinheim, Baden-Wurttemberg, Germany) vol. 12,35 (2025): e02926.		
Synonyms	A1BG, A1B, ABG, alpha 1 B glycoprotein, Alpha 1B glycoprotein		

Selected Validation Data



Purity of Recombinant Human Alpha 1B-Glycoprotein was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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