

For Research Use Only

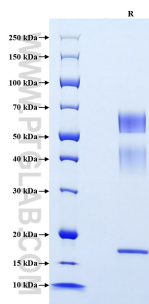
Recombinant Human Haptoglobin/HP protein (His Tag)



Catalog Number: Eg0445

Basic Information	Species: Human	Purity: >90 %, SDS-PAGE	Tag: His Tag
Technical Specifications	<p>Purity: >90 %, SDS-PAGE</p> <p>Endotoxin Level: <0.1 EU/ µg protein, LAL method</p> <p>Source: HEK293-derived Human Haptoglobin protein Val19-Asn406 (Accession# P00738-1) with a His tag at the C-terminus.</p> <p>GeneID: 3240</p> <p>Accession: P00738-1</p> <p>Predicted Molecular Mass: 47.1 kDa</p> <p>SDS-PAGE: 17 kDa, 36-46 kDa and 55-65 kDa, reducing (R) conditions</p> <p>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.</p>		
Biological Activity	Not tested		
Storage and Shipping	<p>Storage: It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none">• Until expiry date, -20°C to -80°C as lyophilized proteins.• 3 months, -20°C to -80°C under sterile conditions after reconstitution. <p>Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.</p>		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	<p>Haptoglobin (Hp) is an abundant human plasma protein that tightly captures hemoglobin (Hb) during hemolysis. The Hb-Hp complex formation reduces the oxidative properties of heme/Hb and promotes recognition by the macrophage scavenger receptor CD163. The major functions of Hp are to scavenge Hb, prevent iron loss, and prevent heme-based oxidation. Decreased haptoglobin is a marker for hemolysis because haptoglobin levels become depleted in the presence of large amounts of free hemoglobin.</p>		
References	<ol style="list-style-type: none">1.Andersen, Christian Brix Folsted et al. (2017) Antioxid Redox Signal.26(14):814-831.2.Shih, Andrew W Y et al. (2014) Am J Hematol.89(4):443-447.3.Delanghe, Joris R et al. (2024) Crit Rev Clin Lab Sci.61(4):275-297.		
Synonyms	haptoglobin, HP, BP, HAPT, HP2 ALPHA 2		

Selected Validation Data



Purity of Recombinant Human Haptoglobin was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.

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

T: 027-87531629

E: Proteintech-CN@ptglab.com

W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.