

Recombinant Human Haptoglobin protein (Tagged-His Tag) ab196135

Description

Product name	Recombinant Human Haptoglobin protein (Tagged-His Tag)	
Purity	<p>> 95 % SDS-PAGE.</p> <p>Purity of ab196135 is greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.</p>	
Endotoxin level	< 1.000 Eu/μg	
Expression system	HEK 293 cells	
Accession	<u>P00738</u>	
Protein length	Full length protein	
Animal free	No	
Nature	Recombinant	
Species	Human	
Sequence	<p>VDSGNDVTDIADDGCPKPPEIAHGYVEHSVRYQCKNYYKL RTEGDGVYTL NDKKQWINKAVGDKLPECEADDGCPKPPEIAHGYVEHSV RYQCKNYYKLR TEGDGVYTLNNEKQWINKAVGDKLPECEAVCGKPKNPAN PVQ ILGGHLDAGSFPWQAKMVSHHNLTTGATLINEQWLLTTA KNLFLN HSEATAKDIAPTLTLYVGKKQLVEIEKVVLHPNYSQVDIGL IKLKQKVS VNERVMPICLPSKDYAEVGRVGYSGWGRNANFKFTDHL KYVMLPVADQD QCIRHYEGSTVPEKKTSPVGVQPILNEHTFCAGMSKYQ EDTCYGDAGS AFAVHDLLEEDTWYATGILSFDKSCAVAEYGVYVKVTSIQD WVQKTIAENV DHHHHHH</p>	
Predicted molecular weight	44 kDa including tags	
Molecular weight information	Predicted MW: 15.9 and 28.3 kDa Apparent MW: 16 and 40-75 kDa (under reducing conditions)	
Amino acids	19 to 406	
Tags	His tag C-Terminus	
Additional sequence information	Amino acid sequence from 19-160 and 162-406. Amino acid 161 is missing from this product. 6-His tag is on the beta chain	

Specifications

Our **Abpromise guarantee** covers the use of **ab196135** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	HPLC
	SDS-PAGE
Form	Lyophilized

Preparation and Storage

Stability and Storage	Shipped at 4°C. Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
	pH: 7.40
	Constituents: 99% PBS, 0.02% DTT
	Supplied as a 0.2 µm filtered solution.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH ₂ O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

General Info

Function	As a result of hemolysis, hemoglobin is found to accumulate in the kidney and is secreted in the urine. Haptoglobin captures, and combines with free plasma hemoglobin to allow hepatic recycling of heme iron and to prevent kidney damage. Haptoglobin also acts as an Antimicrobial; Antioxidant, has antibacterial activity and plays a role in modulating many aspects of the acute phase response. Hemoglobin/haptoglobin complexes are rapidly cleared by the macrophage CD163 scavenger receptor expressed on the surface of liver Kupfer cells through an endocytic lysosomal degradation pathway. Uncleaved haptoglobin, also known as zonulin, plays a role in intestinal permeability, allowing intercellular tight junction disassembly, and controlling the equilibrium between tolerance and immunity to non-self antigens.
Tissue specificity	Expressed by the liver and secreted in plasma.
Involvement in disease	Anhaptoglobinemia
Sequence similarities	Belongs to the peptidase S1 family.
	Contains 1 peptidase S1 domain.
	Contains 2 Sushi (CCP/SCR) domains.
Cellular localization	Secreted.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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