

Native Rabbit Haptoglobin Protein

Cat. No. HP-7761R **Lot. No.** (See product label)

SPECIFICATION

Product Overview Haptoglobin is a serum protein that consists of two alpha and two beta chains connected by disulfide bridges. The alpha and beta chains of rabbit haptoglobin are characterized by polypeptide molecular weights of 9.5 kDa and 27.3 kDa respectively. It acts as a hemoglobin scavenger and has been associated with protease inhibitory activity. It is a positive acute phase reactant, the levels of which increase significantly in rabbits in response to inflammation, tissue injury or disease. Haptoglobin is purified using a combination of affinity and gel filtration chromatography steps.

Species Rabbit

Source Acute phase serum

Description 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 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.

Molecular Mass 40 & 10 kDa bands indicative of β - and α - chains of haptoglobin

Purity > 90%

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Storage	At -20 to -70 centigrade. Avoid repeated freeze-thaws.
Concentration	1.42 mg/mL(Assuming an absorbance of 1.594 for a 1 mg/mL solution at 280 nm)
Storage Buffer	10 mM Na ₃ PO ₄ , 150 mM NaCl, 0.09% NaN ₃ , pH 7.2

GENE INFORMATION

Gene Name	HP haptoglobin [<i>Oryctolagus cuniculus</i> (rabbit)]
Official Symbol	HP
Synonyms	HP; haptoglobin; haptoglobin; zonulin
Gene ID	100008816
mRNA Refseq	NM_001082110
Protein Refseq	NP_001075579
UniProt ID	P19007

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