

Recombinant Human Haptoglobin Catalog No: CH71

Description Recombinant Human Haptoglobin/Zonulin is produced by our E.coli expression system and the target

gene encoding Cys145-Asn406 is expressed with a 6His tag at the N-terminus.

Expression System E.coli

Alternative name Haptoglobin;Zonulin;HP

Accession No. P00738

Quality Control Purity: greater than 95% as determined by reducing SDS-PAGE.

Endotoxin: less than 0.1 ng/µg (1 EU/µg) as determined by LAL test.

Formulation Lyophilized from a 0.2 µm filtered solution of PBS,1mM DTT,pH7.4.

Reconstitution It is not recommended to reconstitute to a concentration less than 100µg/ml.

Dissolve the lyophilized protein in distilled water.

Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Shipping The product is shipped at ambient temperature.

Upon receipt, store it immediately at the temperature listed below.

Storage Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.

Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples

are stable at < -20°C for 3 months.

Always centrifuge tubes before opening. Do not mix by vortex or pipetting.

Background Haptoglobin(HP) is a secreted protein which is a member of the peptidase S1 family of serine

proteases. 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 rapidely cleared by the macrophage CD163 scavenger receptor expressed on the surface of liver Kupfer cells through an endocytic lysosomal degradation pathway. Uncleaved haptoglogin, 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.

SDS-PAGE



