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Datasheet for ABIN7318557

Haptoglobin Protein (HP) (AA 145-406) (His tag)

Overview

Quantity:	50 µg
Target:	Haptoglobin (HP)
Protein Characteristics:	AA 145-406
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Haptoglobin protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Haptoglobin/Zonulin Protein (aa 145-406, His Tag)
Sequence:	Cys145-Asn406
Characteristics:	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.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	Haptoglobin (HP)
Alternative Name:	Haptoglobin/Zonulin (HP Products)
Background:	Background: Haptoglobin(HP) is a secreted protein which is a member of the peptidase S1

Target Details

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 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.

Synonym: Haptoglobin,Zonulin,HP

Molecular Weight: 31.4 kDa

UniProt: [P00738](#)

Pathways: [Transition Metal Ion Homeostasis](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from a 0.2 µm filtered solution of PBS,1 mM DTT, pH 7.4.

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.