

Recombinant Human Haptoglobin

(C-6His)

Catalog #	EPT067
Expression Host	Human Cells
DESCRIPTION	Recombinant Human Haptoglobin/Zonulin is
	produced by our Mammalian expression system and
	the target gene encoding Val19-Gln160(alpha
	chain)&Ile162-Asn406(beta chain) is expressed with a
	6His tag at the C-terminus.
Accession	P00738
Synonyms	Haptoglobin; Zonulin; HP
Mol Mass	15.9&28.3 KDa
AP Mol Mass	16&40-75 KDa, reducing conditions
Purity	Greater than 95% as determined by reducing
	SDS-PAGE.
Endotoxin	Less than 0.1 ng/ μ g (1 EU/ μ g) as determined by LAL
	test.
FORMULATION	Lyophilized from a 0.2 μm filtered solution of PBS, pH
	7.4.



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RECONSTITUTION Always centrifuge tubes before opening.Do not mix by vortex or pipetting. 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. Lyophilized protein should be stored at < -20 ° C, STORAGE 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 $< -20^{\circ}$ C for 3 months. Haptoglobin(HP) is a secreted protein which is a BACKGROUND 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

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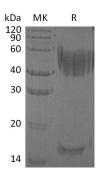
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free plasma hemoglobin to allow hepatic recycling of

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heme iron prevent kidney damage. and to 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



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