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Recombinant Human Haptoglobin Catalog#:P02035 Derived from E.coli

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DESCRIPTION	Recombinant Human Haptoglobin/Zonulin is produced by our <i>E.coli</i> expression
	system and the target gene encoding Cys145-Asn406 is expressed with a 6His tag
	at the N-terminus.
	Accession#: P00738
	Known as: Haptoglobin; Zonulin; HP
FORMULATION	Lyophilized from a 0.2 µm filtered solution of 20mM Tris, 150mM NaCl, 2mM
	EDTA, 5% Thehalose, pH 8.5.
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.
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.
QUALITY	Mol Mass:31.4kDa AP Mol Mass:35kDa, reducing conditions.
	Purity : Greater than 95% as determined by reducing SDS-PAGE.
CONTROL	Endotoxin: Less than 0.1 ng/μg (1 EU/μg) as determined by LAL test.
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.
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