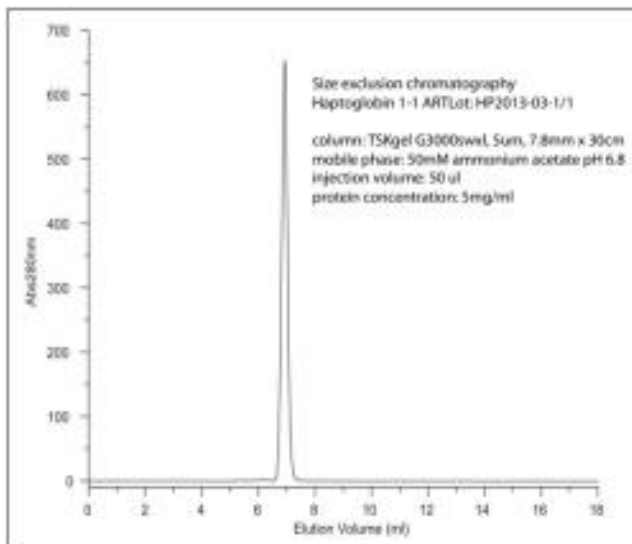


## HP

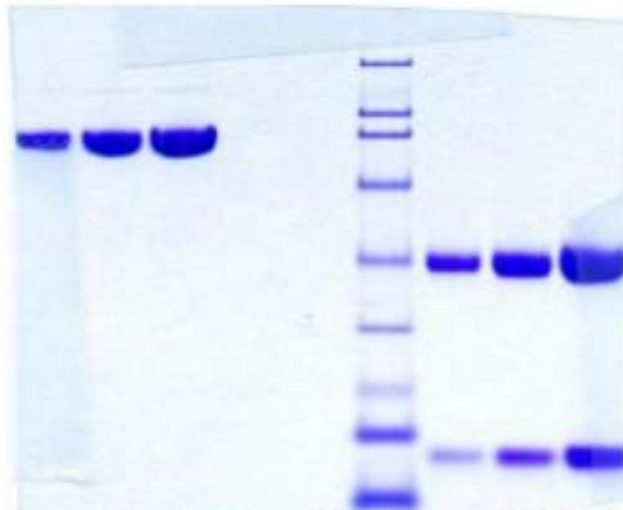
# Native Human Haptoglobin Phenotype 1-1, Low Endotoxin

<b>Catalog No.</b>	CSI19770A CSI19770B	<b>Quantity:</b>	1.0 mg 10 mg
<b>Alternate Names:</b>	Haptoglobin, Hp 1-1, zonulin		
<b>Description:</b>	<p>Haptoglobin, in its simplest form, consists of two alpha and two beta chains, connected by disulfide bridges. The chains originate from a common precursor protein, which is proteolytically cleaved during protein synthesis. Hp exists in two allelic forms in the human population, so-called Hp1 and Hp2. Three phenotypes of Hp, therefore, are found in humans: Hp1-1, Hp2-1, and Hp2-2. Hp of different phenotype have been shown to bind hemoglobin with different affinities, with Hp2-2 being the weakest binder. Of the three haptoglobin phenotypes, Hp 1-1 is the most effective in binding free hemoglobin and in suppressing the inflammatory responses associated with free hemoglobin. Hp 1-1 protects against vascular complications in diabetes, is associated with sickle cell anemia, and is more common than other phenotypes in cases of cirrhosis. Individuals who are phenotype 1-1 have the highest concentration of haptoglobin in plasma.</p>		
<b>UniProt ID:</b>	P00738		
<b>Gene ID:</b>	3240		
<b>Concentration:</b>	Lot specific, prior to lyophilization		
<b>Source:</b>	Human Plasma		
<b>Molecular Weight:</b>	86 kDa		
<b>Appearance:</b>	Lyophilized from a salt-free solution		
<b>Purity:</b>	≥ 95% by SDS-PAGE, no visible alpha-2 light chain		
<b>Extinction Coefficient:</b>	$E^{0.1\%}_{280\text{nm}} = 1.20$		
<b>Endotoxin:</b>	< 0.001 EU/μg by PyroGene™ rFC assay		
<b>Reconstitution:</b>	<p><b>Centrifuge vial prior to opening.</b> Reconstitute with deionized water to the original volume followed by gentle mixing. Allow a few minutes for complete reconstitution. <b>Do not vortex.</b></p>		
<b>Storage &amp; Stability:</b>	<p>Store as supplied at -20°C to -80°C for up to 1 year. Upon reconstitution, prepare aliquots (&gt;20 μl) and store at -20°C to -80°C. <b>Avoid repeated freeze-thaw cycles.</b></p>		
<b>Infectious Disease Statement:</b>	<p>Prepared from plasma shown to be non reactive for HBsAg, anti-HCV, anti-HBc, and negative for anti-HIV 1 &amp; 2 by FDA approved tests.</p>		

SEC UV chromatograph



SDS-PAGE non-reduced & reduced



**NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.**