Cat Haptoglobin

Catalog No. 8160

Analysis SDS PAGE: ~40 & ~10 kDa bands indicative of β– and α– chains of haptoglobin.

Purity ≥90%

Concentration 0.5 - 5 mg/ml (E^1% @ 280nm = 14.9^1)

Buffer 10 mM Sodium phosphate (pH 7.2), 150 mM NaCl, 0.1% sodium azide

Storage -20 to -70°C. Avoid repeated freeze-thaws

Source Pooled cat serum

Haptoglobin is a serum protein that consists of two alpha and two beta chains connected by disulfide bridges. The alpha and beta chains are characterized by molecular weights of ~10 kDa and ~40 kDa respectively. It acts as a hemoglobin scavenger and has been associated with protease inhibitory activity. It is a positive acute phase reactant, the levels of which increase significantly in cats in response to inflammation, tissue injury or disease. Haptoglobin is purified using a combination of affinity and gel filtration chromatography steps.

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1 This extinction coefficient was derived for dog haptoglobin for which the entire amino acid sequence is known. The published partial sequence (121 AA’s) of cat haptoglobin has 89% identity with dog haptoglobin. The same extinction coefficient was therefore used to estimate concentration.