

## HPX

### Native Human Hemopexin

<b>Catalog No.</b>	CRH114A	<b>Quantity:</b>	10 µg
	CRH114B		50 µg
	CRH114C		1.0 mg

**Alternate Names:** Hemopexin, Beta-1B-glycoprotein, HPX, Haemopexin.

**Description:** Hemopexin (or haemopexin) is a plasma protein that binds heme with the highest affinity of any known protein. Hemopexin is generally expressed in liver, and belongs to acute phase reactants, the synthesis of which is induced after inflammation. Heme is potentially very toxic because of its ability to intercalate into lipid membrane and to generate hydroxyl radicals. Hemopexin's function of scavenging the heme released or lost by the turnover of heme proteins such as hemoglobin defends the body from the oxidative damage that free heme can cause. Additionally, hemopexin discharges its bound ligand for internalisation upon interacting with a specific receptor located on the surface of liver cells. This hemopexin function is in order to preserve the body's iron. Hemopexin's levels in the serum are an indication of how much heme is present in the blood. Low Hemopexin levels show that there is a lot of it in the serum. For that reason, low hemopexin levels indicate that there has been considerable degradation of heme containing compounds - mainly hemoglobin, it indicates hemolysis and low hemopexin levels are therefore one of the diagnostic features of a hemolytic anemia. It's a Haem binding protein used in the assessment of intravascular haemolysis in conjunction with haptoglobin.

Human Hemopexin produced in Human plasma having a molecular mass of 70 kDa.

**Concentration:** 1.22 mg/ml

**Gene ID:** 3263

**Protein Accession No:** P02790

**Source:** Human plasma

**Molecular Mass:** 70 kDa

**Formulation:** Lyophilized from (1.22mg/ml) solution containing 11.9 mM phosphate buffer +137 mM NaCl and 2.7 mM KCl, pH 7.4.

**Purity:** Greater than 95%

**Reconstitution:** **Centrifuge vial prior to opening.** Add phosphate buffer, pH >7.0 containing 0.15 M NaCl to the vial to fully solubilize the protein.

**Storage & Stability:** Human Hemopexin although stable at room temperature for 2 weeks, should be stored at -20°C.

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

