Recombinant Human Hemopexin

Cat. No. HPX-4391H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human Hemopexin produced in Human plasma having a molecular mass of 70 kDa.
Species	Human
Source	Human
Description	HPX (or haemopexin) is a plasma protein that binds heme with the highest affinity of any known protein. HPX 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. HPXµs 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, HPX discharges its bound ligand for internalisation upon interacting with a specific receptor located on the surface of liver cells. This HPX function is in order to preserve the body"s iron. HPXµs levels in the serum are an indication of how much heme is present in the blood. Low HPX levels show that there is a lot of it in the serum. For that reason, low HPX levels indicate that there has been considerable degradation of heme containing compounds - mainly hemoglobin, it indicates hemolysis and low HPX levels are therefore one of the diagnostic features of a hemolytic anemia. Itµs a Haem binding protein used in the assessment of intravascular haemolysis in conjunction with haptoglobin.
Form	Lyophilised from 11.9mM phosphate buffer pH- 7.4, 137mM NaI and 2.7mM KCl.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	Greater than 95.0%.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Solubility	It is recommended to reconstitute the lyophilized HPX in phosphate buffer, pH >7.0 containing 0.15M NaCl.
Storage	Human HPX although stable at room temperature for 2 weeks, should be stored at -20°C.

GENE INFORMATION

Gene Name	HPX hemopexin [Homo sapiens]
Official Symbol	HPX
Synonyms	HPX; hemopexin; HX; beta-1B-glycoprotein; EC 3.2.1.35; FLJ56652; Beta-1B-glycoprotein
Gene ID	3263
mRNA Refseq	NM_000613
Protein Refseq	NP_000604
MIM	142290
UniProt ID	P02790
Chromosome Location	11p15.5-p15.4

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Function	binding; heme transporter activity; iron ion binding; metal ion binding

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA