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32-3948: Hemopexin Recombinant Protein

Alternative Name : Hemopexin,Beta-1B-glycoprotein,HPX,Haemopexin.

Description

Source : Escherichia Coli. Hemopexin Human Recombinant produced in E. coli is. a single polypeptide chain containing 462 amino acids (24-462) and having a molecular mass of 51.7kDa. Hemopexin is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. 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.

Product Info

Amount :	20 µg
Purification :	Greater than 85% as determined by SDS-PAGE.
Content :	The Hemopexin solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and 10% glycerol.
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks.Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
Amino Acid :	MGSSHHHHHH SSGLVPRGSH MGSTPLPPTS AHGNVAEGET KPDPDVTERC SDGWSFDATT LDDNGTMLFF KGEFVWKSHK WDRELISERW KNFPSPVDAA FRQGHNSVFL IKGDKVWVYP PEKKEKGYPK LLQDEFPGIP SPLDAAVECH RGECQAEGVL FFQGDREWFW DLATGTMKER SWPAVGNCSS ALRWLGRYYC FQGNQFLRFD PVRGEVPPRY PRDVRDYFMP CPGRGHGHRN GTGHGNSTHH GPEYMRCSPH LVLSALTSDN HGATYAFSGT HYWRLDTSRD GWHSWPIAHQ WPQGPSAVDA AFSWEEKLYL VQGTQVYVFL TKGGYTLVSG YPKRLEKEVG TPHGIILDSV DAAFICPGSS RLHIMAGRRL WWLDLKSGAQ ATWTELPWPH EKVDGALCME KSLGPNSCSA NGPGLYLIHG PNLYCYSDVE KLNAAKALPQ PQNVTSLLGC TH.

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