
Product Data Sheet

Product Name: Hemopexin Human, Sf9

Cat. No.: GP23631

Batch No.: 1

Product Data

Purity >98% Source Sf9, Baculovirus cells.

Physical Appearance solid Shipping Condition Shipped with Ice Packs.

Synonyms Hemopexin; Beta-1B-Glycoprotein; HX; Beta-1B-glycoprotein.

Amino Acid Sequence

ADPTPLPPTS AHGNVAEGET KPDPDVTERC SDGWSFDATT LDDNGTMLFF
 KGEFVWKSHK WDRELISERW KNFPSPVDAA FRQGHNSVFL IKGDKVWVYP
 PEKKEKGYPK LLQDEFPGIP SPLDAAVECH RGECQAEGVL FFQGDREWF
 DLATGTMKER SWPAVGNCS ALRWLGRYYC FQGNQFLRFD PVRGEVPPRY
 PRDVRDYFMP CPGRGHGHRN GTGHGNSTHH GPEYMRCSPH LVLSALTSDN
 HGATYAFSGT HYWRLDTSRD GWHSWPIAHQ WPQGPSAVDA AFSWEEKLYL
 VQGTQVYVFL TKGGYTLVSG YPKRLEKEVG TPHGIILDSV DAAFICPGSS
 RLHIMAGRRL WWLDLKSGAQ ATWTELPWPH EKVDGALCME KSLGPNSCSA
 NGPGLYLIHG PNLICYSDVE KLNAAKALPQ PQNVTSLG TTHHHHHH.

Formulation Hemopexin protein solution (0.5mg/ml) contains 10% glycerol & Phosphate Buffered Saline (pH 7.4).

Introduction

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,

Caution: Product has not been fully validated for medical applications. For research use only.

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Stability

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.

Background

Hemopexin produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 448 amino acids (24-462a.a.) and having a molecular mass of 50.4kDa. (Molecular size on SDS-PAGE will appear at approximately 50-70kDa). Hemopexin is expressed with a 9 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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