

32-3940: HBG1 Recombinant Protein

Alternative Name : HBGA,HBGR,HSGGL1,PRO2979,Hemoglobin subunit gamma-1,Gamma-1-globin,Hb F Agamma,Hemoglobin gamma-1 chain,Hemoglobin gamma-A chain,HBG1.

Description

Source : Escherichia Coli. HBG1 Human Recombinant produced in E. coli is a single polypeptide chain containing 170 amino acids (1-147) and having a molecular mass of 18kDa. HBG1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. The gamma globin genes which are HBG1 and HBG2, usually expressed in the fetal liver, spleen and bone marrow. 2 gamma chains together along with 2 alpha chains comprise fetal hemoglobin (HbF) which is normally replaced by mature hemoglobin (HbA) at birth. Gamma chain production continues into adulthood in several beta-thalassemias and linked situations. The two types of gamma chains differ at residue 136 where glycine is found in the G-gamma product (HBG2) and alanine is found in the A-gamma product (HBG1). The former is predominant at birth.

Product Info

Amount : 10 µg
Purification : Greater than 85% as determined by SDS-PAGE.
Content : The HBG1 solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl 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 MGSMGHFTEE DKATITSLWG KVNVEDAGGE TLGRLLVVYP
 WTQRFFDSFG NLSSASAIMG NPKVKAHGKK VLTSLGDATE HLDDLKGTFQ QLSEHCDKL HVDPENFKLL
 GNVLVTVLAI HFGKEFTPEV QASWQKMVTA VASALSSRYH.

