

## 32-3940: HBG1 Recombinant Protein

**Alternative Name** HBGA,HBGR, HSGGL1,PRO2979,Hemoglobin subunit gamma-1,Gamma-1-globin,Hb F  
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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 VLTSLGDATK HLDDLKGTFA QLSELHCDKL HVDPENFKLL  
GNVLVTVLAI HFGKEFTPEV QASWQKMVTA VASALSSRYH.

