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# Recombinant human HBG1 protein

Catalog Number: ATGP2153

# **PRODUCT INFORMATION**

# **Expression system**

E.coli

#### **Domain**

1-147aa

#### **UniProt No.**

P69891

#### **NCBI Accession No.**

NP 000550.2

## **Alternative Names**

Hemoglobin subunit gamma-1, HBGA, HBGR, HSGGL1, PRO2979

# PRODUCT SPECIFICATION

# **Molecular Weight**

18 kDa (170aa) confirmed by MALDI-TOF

#### Concentration

0.25mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol

#### **Purity**

> 85% by SDS-PAGE

#### Tag

His-Tag

# **Application**

SDS-PAGE

# **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## **BACKGROUND**

### **Description**

The gamma globin genes (HBG1 and HBG2) are normally expressed in the fetal liver, spleen and bone marrow. Two gamma chains together with two alpha chains constitute fetal hemoglobin (HbF) which is normally replaced by adult hemoglobin (HbA) at birth. In some beta-thalassemias and related conditions, gamma chain production continues into adulthood. The two types of gamma chains differ at residue 136 where glycine is found in the Gamma product (HBG2) and alanine is found in the A-gamma product (HBG1). The former is predominant at birth. The order of the genes in the beta-globin cluster is: 5' - epsilon - gamma-G - gamma-A - delta - beta - 3'.



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Recombinant human HBG1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

# **Amino acid Sequence**

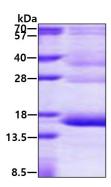
<MGSSHHHHHH SSGLVPRGSH MGS>MGHFTEE DKATITSLWG KVNVEDAGGE TLGRLLVVYP WTQRFFDSFG NLSSASAIMG NPKVKAHGKK VLTSLGDATK HLDDLKGTFA QLSELHCDKL HVDPENFKLL GNVLVTVLAI HFGKEFTPEV QASWQKMVTA VASALSSRYH

# **General References**

Huisman TH, Kutlar F, et al. (1991). Hemoglobin. 15(5):349-79. Loudianos G, Moi P, et al. (1992). Hemoglobin. 16(6):503-9.

# **DATA**

## **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

