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# Recombinant human HBG2 protein

Catalog Number: ATGP1927

# **PRODUCT INFORMATION**

# **Expression system**

E.coli

#### **Domain**

1-147aa

#### UniProt No.

P69892

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

NP 000175.1

#### **Alternative Names**

Hemoglobin subunit gamma-2, TNCY

# PRODUCT SPECIFICATION

### **Molecular Weight**

18.5 kDa (170aa) confirmed by MALDI-TOF

#### Concentration

0.5mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 20% glycerol,1mM DTT

#### **Purity**

> 90% 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**

Hemoglobin subunit gamma-2, also known as HBG2, belongs to the fetal hemoglobin subunit, which consists of two alpha chains together with two gamma chains. Increased fetal hemoglobin production in adults can ameliorate the clinical severity of sickle cell disease and beta-thalassemia major. Recombinant human HBG2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.



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# **Amino acid Sequence**

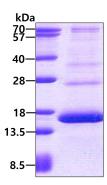
<MGSSHHHHHH SSGLVPRGSH MGS>MGHFTEE DKATITSLWG KVNVEDAGGE TLGRLLVVYP WTQRFFDSFG NLSSASAIMG NPKVKAHGKK VLTSLGDAIK HLDDLKGTFA QLSELHCDKL HVDPENFKLL GNVLVTVLAI HFGKEFTPEV QASWQKMVTG VASALSSRYH

# **General References**

Feng L., et al. (2004) Cell. 119:629-640. Liebhaber S A., et al. (1981) Nature.290:26-29.

# **DATA**

### **SDS-PAGE**



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

