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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

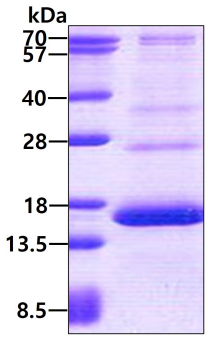
<MGSSHHHHHH SSGLVPRGSH MGS>MGHFTEE DKATITSLWG KVNVEDAGGE TLGRLLVVYP WTQRFFDSFG NLSSASAIMG NPKVKAHGKK VLTSLGDAIK HLDDLKGTFA QLSELHCDKL HVDPENFKLL GNVLVTVLAI HFGKEFTPEV QASWQKMVTG VASALSSRYH

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.