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Recombinant human HBQ1 protein

Catalog Number: ATGP2230

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-142aa

UniProt No.

P09105

NCBI Accession No.

NP 005322

Alternative Names

Hemoglobin subunit theta-1, hemoglobin, theta 1

PRODUCT SPECIFICATION

Molecular Weight

17.9 kDa (165aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% 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 theta-1, also known as HBQ1, belongs to the Hemoglobin family. Hemoglobin (Hgb) is a 66. 7 kDa protein coupled to four iron-binding, methenelinked tetrapyrrole rings (heme). The globin portion of Hgb consists of two alpha chains and two beta chains arranged in pairs forming a tetramer. Each of the four globin chains covalently associates with a heme group. The bonds between alpha and beta chains are weaker than between similar globin chains, thereby forming a cleavage plane that is important for oxygen binding and release. High affinity for oxygen occurs upon relaxation of the alpha1-beta2 cleavage plane. Recombinant



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human HBQ1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

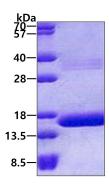
<MGSSHHHHHH SSGLVPRGSH MGS>MALSAED RALVRALWKK LGSNVGVYTT EALERTFLAF PATKTYFSHL DLSPGSSQVR AHGQKVADAL SLAVERLDDL PHALSALSHL HACQLRVDPA SFQLLGHCLL VTLARHYPGD FSPALQASLD KFLSHVISAL VSEYR

General References

Liebhaber S A., et al. (1981) Nature. 290:26-29 Sudha R., et al. (2004) J biol Chem. 279:20018-20027.

DATA

SDS-PAGE



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

