

Recombinant Human HBQ1, His-tagged

Cat. No. HBQ1-15874H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human HBQ1 protein, fused to His tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	1-142aa
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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT
Molecular Mass	17.9 kDa (165aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHH SSGLVPRGSH MGSMALSAED RALVRALWKK LGSNMGVYTT EALERTFLAF PATKTYFSL DLSPGSSQVR AHGQKVADAL SLAVERLDDL

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PHALSALSHL HACQLRVDPA SFQLLGHCLL VTLARHYPGD FSPALQASLD
KFLSHVISAL VSEYR

Purity >90% by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at 4°C short term. For long term storage, aliquot and store at at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Concentration 1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [HBQ1 hemoglobin, theta 1 \[Homo sapiens \(human\) \]](#)

Official Symbol HBQ1

Synonyms HBQ1; hemoglobin, theta 1; hemoglobin subunit theta-1; theta-1-globin; hemoglobin theta-1 chain

Gene ID [3049](#)

mRNA Refseq [NM_005331](#)

Protein Refseq [NP_005322](#)

MIM [142240](#)

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