

Recombinant Protein Technical Manual Recombinant Human HBQ1 Protein (His Tag)

RPES0530

Product Data:

Product SKU: RPES0530

Species: Human

Size: 10μg

Expression host: E. coli

Uniprot: P09105

Protein Information

Molecular Mass:	17.7 kDa
AP Molecular Mass:	15&30 kDa
Tag:	N-6His
Bio-activity:	
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin:	< 1.0 EU per μg as determined by the LAL method.
Storage:	Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping:	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation:	Lyophilized from a 0.2 μ m filtered solution of 20mM PB, 150mM NaCl, pH 7.0.
Reconstitution:	Please refer to the printed manual for detailed information.
Application:	
Synonyms:	Hemoglobin subunit theta; Hemoglobin theta chain; Theta-globin; HBQ1

Immunogen Information:

Sequence: Met 1-Arg142

Background:

Hemoglobin subunit theta is a protein that in humans is encoded by the HBQ1 gene. Theta-globin mRNA is originally found in human fetal erythroid tissue but not in adult erythroid or other nonerythroid tissue. Theta is a member of the human alpha-globin gene cluster that includes five functional genes and two pseudogenes. Research supports a transcriptionally active role for the gene and a functional role for the peptide in specific cells, possibly those of early erythroid tissue. Hemoglobin has a quaternary structure characteristically composed of many multi-subunit globular proteins. Most of the amino acids in hemoglobin form alpha helices, connected by short non-helical segments. Hydrogen bonds stabilize the helical sections inside this protein, causing attractions within the molecule, folding each polypeptide chain into a specific shape. Hemoglobin's quaternary structure comes from its four subunits in roughly a tetrahedral arrangement.