

Product datasheet for AR50751PU-S

Hemoglobin F / HBG2 (1-147, His-tag) Human Protein

Product data:

Product Type: Recombinant Proteins Description: Hemoglobin F / HBG2 (1-147, His-tag) human recombinant protein, 0.1 mg Species: Human E. coli **Expression Host:** MGSSHHHHHH SSGLVPRGSH MGSMGHFTEE DKATITSLWG KVNVEDAGGE TLGRLLVVYP **Expression cDNA Clone** or AA Sequence: WTQRFFDSFG NLSSASAIMG NPKVKAHGKK VLTSLGDAIK HLDDLKGTFA QLSELHCDKL HVDPENFKLL GNVLVTVLAI HFGKEFTPEV QASWQKMVTG VASALSSRYH Tag: His-tag Predicted MW: 18.5 kDa **Concentration:** lot specific **Purity:** >90% by SDS - PAGE **Buffer:** Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 20% glycerol, 1 mM DTT **Preparation:** Liquid purified protein **Protein Description:** Recombinant human HBG2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid Storage: repeated freezing and thawing. Stability: Shelf life: one year from despatch. **RefSeq:** NP 000175 Locus ID: 3048 **UniProt ID:** P69892, D9YZU9 **Cytogenetics:** 11p15.4 Synonyms: HBG-T1; TNCY



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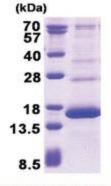
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Summary:

The gamma globin genes (HBG1 and HBG2) are normally expressed in the fetal liver, spleen and bone marrow. Two gamma chains together with two alpha chains constitute fetal hemoglobin (HbF) which is normally replaced by adult hemoglobin (HbA) at birth. In some beta-thalassemias and related conditions, gamma chain production continues into adulthood. The two types of gamma chains differ at residue 136 where glycine is found in the G-gamma product (HBG2) and alanine is found in the A-gamma product (HBG1). The former is predominant at birth. The order of the genes in the beta-globin cluster is: 5'- epsilon -gamma-G -- gamma-A -- delta -- beta--3'. [provided by RefSeq, Jul 2008]

Product images:



15% SDS-PAGE (3ug)

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