

Recombinant Human HBA1 protein, His-tagged

Cat. No. HBA1-7859H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HBA1 aa. (Met1~Arg142 (Accession # P69905)) fused with N-terminal His tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Met1~Arg142
Description	The human alpha globin gene cluster located on chromosome 16 spans about 30 kb and includes seven loci: 5'- zeta - pseudozeta - mu - pseudoalpha-1 - alpha-2 - alpha-1 - theta - 3'. The alpha-2 (HBA2) and alpha-1 (HBA1) coding sequences are identical. These genes differ slightly over the 5' untranslated regions and the introns, but they differ significantly over the 3' untranslated regions. Two alpha chains plus two beta chains constitute HbA, which in normal adult life comprises about 97% of the total hemoglobin; alpha chains combine with delta chains to constitute HbA-2, which with HbF (fetal hemoglobin) makes up the remaining 3% of adult hemoglobin. Alpha thalassemias result from deletions of each of the alpha genes as well as deletions of both HBA2 and HBA1; some nondeletion alpha thalassemias have also been reported.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 16.8kDa

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Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%
Characteristic	The isoelectric point is 8.
Applications	SDS-PAGE; WB; ELISA; IP
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage Buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	HBA1 hemoglobin subunit alpha 1 [Homo sapiens (human)]
Official Symbol	HBA1
Synonyms	HBA1; hemoglobin subunit alpha 1; HBH; HBA-T3; hemoglobin subunit alpha; alpha one globin; alpha-2 globin chain; delta globin; hemoglobin alpha 1 globin chain; hemoglobin, alpha 1

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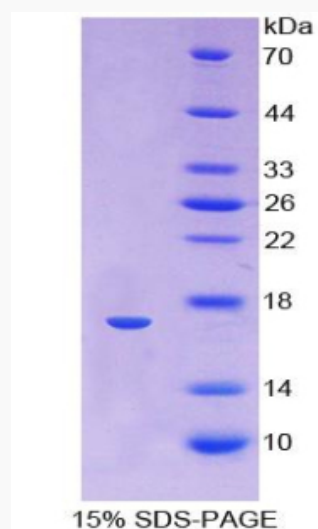
Gene ID 3039

mRNA Refseq NM_000558.4

Protein Refseq NP_000549.1

UniProt ID P69905

SDS-PAGE



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