

Recombinant Human HBA1 Protein (Met1-Arg142), His tagged

Cat. No. HBA1-2450H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human HBA1 (Met1-Arg142) protein fused with His tag was expressed in E. coli.
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.
Molecular Mass	17.54 kDa
Purity	>90 % as determined by SDS-PAGE.

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Notes	For research use only.
Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.
Storage Buffer	Supplied as solution form in PBS pH 7.5 or lyophilized from PBS pH 7.5.
Reconstitution	Reconstitute in sterile water for a stock solution.
Shipping	In general, proteins are provided as lyophilized powder/frozen liquid. They are shipped out with dry ice/blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	HBA1 hemoglobin, alpha 1 [Homo sapiens (human)]
Official Symbol	HBA1
Synonyms	HBA1; hemoglobin, alpha 1; hemoglobin subunit alpha; alpha-globin; alpha-1 globin; alpha-1-globin; alpha one globin; hemoglobin alpha chain; hemoglobin alpha-1 chain; hemoglobin alpha 1 globin chain; HBH; CD31; MGC126895; MGC126897;
Gene ID	3039
mRNA Refseq	NM_000558
Protein Refseq	NP_000549
MIM	141800

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UniProt ID

P69905

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