

Recombinant Human HBA1, GST-tagged

Cat. No. HBA1-13678H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HBA1 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-142
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.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

GSH and 1% Triton X-100,15%glycerol.

GENE INFORMATION

Gene Name	HBA1 hemoglobin, alpha 1 [Homo sapiens]
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
UniProt ID	P69905
Chromosome Location	16p13.3
Pathway	African trypanosomiasis, organism-specific biosystem; African trypanosomiasis, conserved biosystem; Malaria, organism-specific biosystem; Malaria, conserved biosystem; Selenium Pathway, organism-specific biosystem;

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