

## Recombinant Human HBG1, His-tagged

Cat. No. HBG1-7642H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human HBG1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-147aa
<b>Description</b>	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'.
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol.
<b>Molecular Mass</b>	18kDa (170aa)
<b>AA Sequence</b>	MGSSHHHHHH SGLVPRGSH MGSMGHFTEE DKATITSLWG KVNVEDAGGE TLGRLLVVYP WTQRFFDSFG NLSSASAIMG NPKVKAHGKK VLTS LGDATK

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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

HLDDLKGTFA QLSELHCDKL HVDPENFKLL GNVLVTVLAI HFGKEFTPEV  
QASWQKMVTA VASALSSRYH

**Purity** >85% by SDS - PAGE

**Applications** SDS-PAGE

**Storage** Can be stored at 4°C short term. For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**Concentration** 0.25mg/ml?

## GENE INFORMATION

**Gene Name** [HBG1 hemoglobin, gamma A \[ Homo sapiens \]](#)

**Official Symbol** HBG1

**Synonyms** HBG1; hemoglobin, gamma A; hemoglobin subunit gamma-1; hb F Agamma; gamma globin; A-gamma globin; gamma-1-globin; gamma A hemoglobin; hemoglobin gamma-1 chain; hemoglobin gamma-a chain; hemoglobin, gamma, regulator of; HBGA; HBGR; HSGGL1; PRO2979;

**Gene ID** [3047](#)

**mRNA Refseq** [NM\\_000559](#)

**Protein Refseq** [NP\\_000550](#)

**MIM** [142200](#)

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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



<b>UniProt ID</b>	P69891
<b>Chromosome Location</b>	11p15.5
<b>Function</b>	heme binding; metal ion binding; oxygen binding; oxygen transporter activity;

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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