Recombinant Human HBG1, His-tagged

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

SPECIFICATION

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

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	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

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

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