Recombinant Human HBG2 protein, His-tagged

Cat. No. HBG2-16H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HBG2(1-147aa) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-147 a.a.
Description	Hemoglobin subunit gamma-2, also known as HBG2, belongs to the fetal hemoglobin subunit, which consists of two alpha chains together with two gamma chains. Increased fetal hemoglobin production in adults can ameliorate the clinical severity of sickle cell disease and beta-thalassemia major.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 20% glycerol,1mM DTT
Molecular Mass	18.5 kDa (170aa) confirmed by MALDI-TOF
Purity	> 90% by SDS - PAGE
Storage	Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.

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Concentration	0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	HBG2 hemoglobin subunit gamma 2 [Homo sapiens]
Official Symbol	HBG2
Synonyms	TNCY; HBG-T1; G-gamma globin Paulinia; abnormal hemoglobin; gamma-2-globin; hb F Ggamma; hemoglobin gamma-2 chain; hemoglobin gamma-G chain; hemoglobin, gamma G; methemoglobin
Gene ID	3048
mRNA Refseq	NM_000184
Protein Refseq	NP_000175
MIM	142250
UniProt ID	P69892
Chromosome Location	11p15.5
Pathway	Factors involved in megakaryocyte development and platelet production, organism-specific biosystem; Hemostasis, organism-specific biosystem
Function	heme binding; iron ion binding; oxygen binding

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