

Recombinant Human Cytoglobin, His-tagged

Cat. No. CYGB-2578H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CYGB, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography. MW = 23.5 kDa(210aa).
Species	Human
Source	E.coli
Description	CYGB is a globin molecule located in the brain and most notably utilized in marine mammals. It is thought to be a method of protection under conditions of hypoxia. The predicted function of cytoglobin is the modulation of oxygen and nitric oxide metabolism or scavenging free radicals within a cell.
Sequences Of Amino Acids	MGSSHHHHH SSGLVPRGSH MEKVPGEMEI ERRERSEELS EAERKAVQAM WARLYASCED VGVAILVRFF VNFPSAKQYF SQFKHMEDPL EMERSPQLRK HACRVMGALN TVVENLHDPD KVSSVLALVG KAHALKHKVE PVYFKILSGV ILEVVAEEFA SDFPPETQRA WAKLRGLIYS HVTAAYKEVG WVQQVPNATT PPATLPSSGP
Purity	> 90% by SDS – PAGE.
Form	Liquid. In 20 mM Tris-HCl Buffer (pH 8.0) containing 10% Glycerol.
Concentration	1 mg/ml (determined by Bradford assay).
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and

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store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	CYGB cytoglobin [Homo sapiens]
Synonyms	CYGB; cytoglobin; HGB; STAP; histogloblin; stellate cell activation-associated protein
Gene ID	114757
mRNA Refseq	NM_134268
Protein Refseq	NP_599030
MIM	608759
UniProt ID	Q8WWM9
Chromosome Location	17q25.3
Function	heme binding; metal ion binding; oxygen binding; oxygen transporter activity; peroxidase activity

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