

Recombinant Human CYGB, His-tagged

Cat. No. CYGB-26694TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Cytoglobin with an N terminal His tag; 210aa, 23.5kDa.
Species	Human
Source	E.coli
ProteinLength	190 amino acids
Description	Cytoglobin is a ubiquitously expressed hexacoordinate hemoglobin that may facilitate diffusion of oxygen through tissues, scavenge nitric oxide or other reactive oxygen species, or serve a protective function during oxidative stress (Trent and Hargrove, 2002)
Conjugation	HIS
Molecular Weight	23.500kDa inclusive of tags
Tissue specificity	Ubiquitously expressed. Highest expression in heart, stomach, bladder and small intestine.
Form	Liquid
Purity	>90% by SDS-PAGE

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Storage buffer	Preservative: None Constituents: 10% Glycerol, 20mM Tris HCl, pH 8.0
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHHSSGLVPRGSHMEKVPGEIERRERSEELSEAERKAVQAMWARL YASCEDVGVAILVRFFVNFPSAKQYFSQFKHMEDPLEMERSPQLRKHACRVMGALN TVVENLHDPDKVSSVLALVGKAHALKHKVEPVYFKILSGVILEVVAEEFASDFPETQ RAWAKLRGLIYSHVTAAYKEVGWVQQVPNATTPPATLPSSGP
Sequence Similarities	Belongs to the globin family.

GENE INFORMATION

Gene Name	CYGB cytoglobin [Homo sapiens]
Official Symbol	CYGB
Synonyms	CYGB; cytoglobin; HGB; histogloblin; STAP; stellate cell activation associated protein;
Gene ID	114757
mRNA Refseq	NM_134268
Protein Refseq	NP_599030
MIM	608759
Uniprot ID	Q8WWM9
Chromosome	17q25

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Location**Function**

heme binding; metal ion binding; oxygen binding; oxygen transporter activity;
peroxidase activity;

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