

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 | MGSSHHHHHSSGLVPRGSHMEKVPGEMEIERRERSEELSEAERKAVQAMWARL YASCEDVGVAILVRFFVNFPSAKQYFSQFKHMEDPLEMERSPQLRKHACRVMGALN TVVENLHDPDKVSSVLALVGKAHALKHKVEPVYFKILSGVILEVVAEEFASDFPPETQ RAWAKLRGLIYSHVTAAYKEVGWVQQVNPATTPPATLPSSGP |
| Sequence Similarities | Belongs to the globin family. |

GENE INFORMATION

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|------------------------|---|
| 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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