

## Recombinant Human CYGB

**Cat. No.** CYGB-7803H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human Cytoglobin/CYGB is produced with our E. coli expression system. The target protein is expressed with sequence (Met1Pro190) of Human CYGB.                                                                                                                                                                                                                |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>      | Cytoglobin is a ubiquitously globin protein that belongs to the globin family. The highest expressed in heart, stomach, bladder and small intestine. CYGB acts a protector under conditions of oxidative stress. CYGB may be involved in intracellular oxygen storage or transfer, modulates oxygen and nitric oxide metabolism or scavenging free radicals within a cell. |
| <b>Form</b>             | Supplied as a 0.2 µM filtered solution of 20mM TrisHCl, 10% Glycerol, pH 8.0                                                                                                                                                                                                                                                                                               |
| <b>Purity</b>           | Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.                                                                                                                                                                                                                                                                                                          |
| <b>Notes</b>            | For research use only.                                                                                                                                                                                                                                                                                                                                                     |
| <b>Storage</b>          | Store at less than 20°C. stable for 6 months after receipt. Please minimize freezethaw cycles.                                                                                                                                                                                                                                                                             |

### GENE INFORMATION

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|                            |                                                                                                  |
|----------------------------|--------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | CYGB cytoglobin [ Homo sapiens ]                                                                 |
| <b>Official Symbol</b>     | CYGB                                                                                             |
| <b>Synonyms</b>            | CYGB; cytoglobin; HGB, STAP; histogloblin; stellate cell activation-associated protein           |
| <b>Gene ID</b>             | 114757                                                                                           |
| <b>mRNA Refseq</b>         | NM_134268.4                                                                                      |
| <b>Protein Refseq</b>      | NP_599030.1                                                                                      |
| <b>MIM</b>                 | 608759                                                                                           |
| <b>UniProt ID</b>          | Q8WWM9                                                                                           |
| <b>Chromosome Location</b> | 17q25                                                                                            |
| <b>Function</b>            | heme binding; iron ion binding; oxygen binding; oxygen transporter activity; peroxidase activity |

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