

## CYGB Protein, Rat (His-Myc)

Cat. No.:	HY-P72162
Synonyms:	Cygb; StapCytoglobin; Histoglobin; HGb; Stellate cell activation-associated protein
Species:	Rat
Source:	E. coli
Accession:	Q921A4 (M1-P190)
Gene ID:	170520
Molecular Weight:	Approximately 31 kDa

### PROPERTIES

AA Sequence	MEKVPGDMEI    ERRERNEELS    EAERKAVQAT    WARLYANCED VGVAILVRFF    VNFPSAKQYF    SQFKHMEDPL    EMERSPQLRK HACRVMGALN    TVVENLHDPD    KVS SVLALVG    KAHALKHKVE PMYFKILSGV    ILDVIAEEFA    NDFPVETQKA    WTKLRGLIYS HVTAAAYKEVG    WVQQVPNTTT    LPATLPSSGP
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm solution of 10 mM Tris-HCl, 1 mM EDTA, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	<p>The CYGB protein appears to fulfill a pivotal role in cellular defense against oxidative stress, potentially acting as a protective agent to mitigate damage. Furthermore, it may play a role in intracellular processes related to oxygen storage or transfer. Notably, CYGB is implicated in the development of liver fibrosis, suggesting its involvement in pathological conditions. Additionally, the protein exhibits peroxidase activity, emphasizing its capacity to participate in redox reactions and contribute to cellular homeostasis.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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