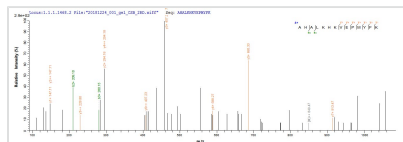




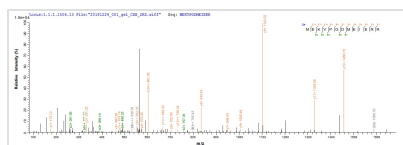
# Recombinant Rat Cytoglobin (Cygb)

<b>Product Code</b>	CSB-EP006376RA
<b>Abbreviation</b>	Recombinant Rat Cygb protein
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q921A4
<b>Storage Buffer</b>	Tris-based buffer,50% glycerol
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	MEKVPGDMEIERRERNEELSEAERKAVQATWARLYANCEDVGVAIVRFFVN FPSAKQYFSQFKHMEDPLEMERSPQLRKHACRVMGALNTVVENLHDPDKVS SVLALVGKAHALKHKVEPMYFKILSGVILDVIAEEFANDFPVETQKAWTKLRGLI YSHVTAAYKEVGWVQQVPNTTTLPATLPSSGP
<b>Research Area</b>	Cardiovascular
<b>Source</b>	E.coli
<b>Target Names</b>	Cygb
<b>Protein Names</b>	Recommended name: Cytoglobin Alternative name(s): Histoglobin Short name= HGb Stellate cell activation-associated protein
<b>Expression Region</b>	1-190aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 10xHis-tagged and C-terminal Myc-tagged
<b>Mol. Weight</b>	28.9 kDa
<b>Protein Length</b>	Full Length

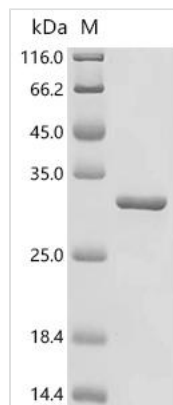
## Image



Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of CSB-EP006376RA could indicate that this peptide derived from E.coli-expressed Rattus norvegicus (Rat) Cygb.



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(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

## Description

The Rat Cygb protein's gene (1-190aa) is inserted into a plasmid vector, forming recombinant plasmid, which is introduced into e.coli cells. e.coli cells surviving in the presence of a specific antibiotic are selected and then cultured under conditions promoting the expression of the gene of interest. The protein features a N-terminal 10xHis tag and C-terminal Myc tag fusion. After expression, the recombinant Rat Cygb protein is isolated and purified from the cell lysate through affinity purification. Denaturing SDS-PAGE is utilized to resolve the resulting recombinant protein, revealing a purity exceeding 90%.

## Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

## Shelf Life

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