

Human Cytoglobin / CYGB Protein (His Tag)



Sino Biological Inc.
Biological Solution Specialist

Catalog Number: 14367-H07E

General Information

Gene Name Synonym:

HGB; STAP; 3110001K20Rik; HGb; Staap

Protein Construction:

A DNA sequence encoding the human CYGB (AAH29798.1) (Met1-Pro190) was expressed with a polyhistidine tag at the N-terminus.

Source: Human

Expression Host: E. coli

QC Testing

Purity: > 90 % as determined by SDS-PAGE

Endotoxin:

Please contact us for more information.

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: His

Molecular Mass:

The recombinant human CYGB consists of 205 amino acids and predicts a molecular mass of 23.2 KDa. It migrates as an approximately 26 KDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile 20mM Tris, 100mM NaCl, 10% Glycerol, pH 8.0.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

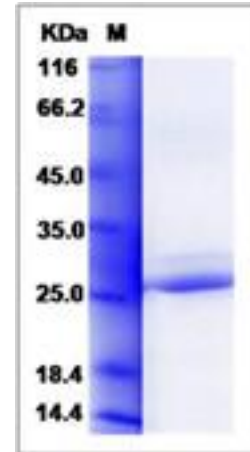
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Cytoglobin, also known as CYGB, is a globin molecule ubiquitously expressed in all tissues and most notably utilized in marine mammals. Its actual function is still unknown. It is thought to be a method of protection under conditions of hypoxia. The predicted function of cytoglobin is the transfer of oxygen from arterial blood to the brain. Cytoglobin is also present in chondroblasts and osteoblasts and shows a decreased level of expression upon differentiation to chondrocytes and osteocytes. Cytoglobin may facilitate diffusion of oxygen through tissues, scavenge nitric oxide or reactive oxygen species, or serve a protective function during oxidative stress.

References

1. Burmester T. et al., 2002, Mol Biol Evol. 19 (4): 416-21.
2. Trent JT. et al., 2002, J Biol Chem. 277 (22): 19538-45.
3. Kawada N. et al., 2001, J Biol Chem. 276 (27): 25318-23.

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