Human Complement Component C2 (His Tag) recombinant protein

Catalog Number: 502388

General Information

Gene Name Synonym

C3/C5 convertase; Complement C2b fragment; Complement C2a fragment

Protein Construction

A DNA sequence encoding the human complement component 2 (C2) precursor (NP_000054.2) (Met 1-Leu 752) was expressed with a C-terminal polyhistidine tag.

Organism

Human

Expression Host

Human Cells

QC Testing

Activity

Measured by its ability to cleave a colorimetric peptide substrate, N-carbobenzyloxy-Gly-Arg-ThioBenzyl ester (Z-GR-SBzl), in the presence of 5,5'Dithiobis (2-nitrobenzoic acid) (DTNB). The specific activity is >100 pmoles/min/μg.

Purity

> 97 % as determined by SDS-PAGE and SEC-HPLC Analysis.

Endotoxin

< 1.0 EU per μg of the protein as determined by the LAL method

Stability

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

Predicted N terminal

Ala 21

Molecular Mass

The single-chain form of recombinant human complement component C2 comprises 743 amino acids and has a calculated molecular mass of 82.5 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rhC2 is 90-100 kDa as a result of glycosylation.

Formulation

Lyophilized from sterile PBS, pH 7.4
1. 5 % trehalose and mannitol are added as protectants before lyophilization.
2. Please contact us for any concerns or special requirements.

Usage Guide

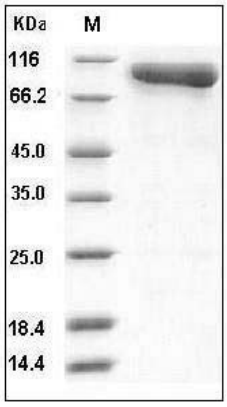
Storage

Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

SDS-PAGE



Human C2 / Complement Component 2 Protein (His Tag) SDS-PAGE