Human CFHR1 Protein (His Tag)

Catalog Number: 12822-H08H

General Information

Gene Name Synonym:
CFHL; CFHL1; CFHL1P; CFHR1; CFHR1P; FHR1; H36-1; H36-2; HFL1; HFL2; AI194696; Cth1; CFHRB

Protein Construction:
A DNA sequence encoding the human CFHR1 (Q03591) (Met1-Arg330) was expressed with a polyhistidine tag at the C-terminus.

Source: Human

Expression Host: Human Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE

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 °C

Predicted N terminal: Glu 19

Molecular Mass:
The recombinant human CFHR1 consists of 323 amino acids and predicts a molecular mass of 37.2 kDa. It migrates as an approximately 45 kDa band in SDS-PAGE under reducing conditions.

Formulation:
Lyophilized from sterile PBS, pH 7.4

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

CFHR1 is a secreted protein belonging to the complement factor H protein family. The human complement factor H protein family consists of the complement and immune regulators factor H, the factor H-like protein 1 (FHL-1) and five factor H-related proteins (CFHR-1 to -5). Members of the H-related protein family are exclusively composed of individually folded protein domains, termed short consensus repeats (SCRs) or complement control modules. CFHR1 binds to Pseudomonas aeruginosa elongation factor Tuf together with plasminogen, which is proteolytically activated. CFHR1 might be involved in complement regulation. It can associate with lipoproteins and may play a role in lipid metabolism.

References