

Human CFHR1 Protein (His Tag)

Catalog Number: 12822-H08H



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

CFHL; CFHL1; CFHL1P; CFHR1; CFHR1P; FHR1; H36-1; H36-2; HFL1; HFL2; AI194696; Cfh1; 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:

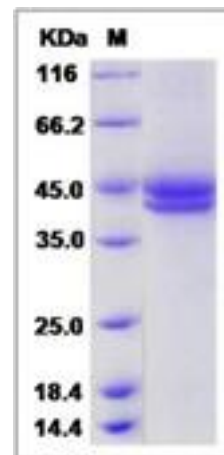
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

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

1. Martinez-Barrica, *et al.* (2012) Relevance of complement factor H-related 1 (CFHR1) genotypes in age-related macular degeneration. *Invest Ophthalmol Vis Sci.* 53(3):1087-94.
2. Leban N, *et al.* (2012) Factor H and CFHR1 polymorphisms associated with atypical Haemolytic Uraemic Syndrome (aHUS) are differently expressed in Tunisian and in Caucasian populations. *Int J Immunogenet.* 39(2):110-3.
3. Kubista KE, *et al.* (2011) Copy number variation in the complement factor H-related genes and age-related macular degeneration. *Int J Immunogenet. Mol Vis.* 17:2080-92.

Manufactured By Sino Biological Inc., FOR RESEARCH USE ONLY. NOT FOR USE IN HUMANS.

Fax :+86-10-51029969 • Tel:+86-400-890-9989 • <http://www.sinobiological.com>