

Recombinant Full Length Human C7 Protein, GST-tagged

Cat. No. C7-2715HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human C7 full-length ORF (BAG35608.1, 1 a.a. - 843 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	843 amino acids
Description	This gene encodes a serum glycoprotein that forms a membrane attack complex together with complement components C5b, C6, C8, and C9 as part of the terminal complement pathway of the innate immune system. The protein encoded by this gene contains a cholesterol-dependent cytolysin/membrane attack complex/perforin-like (CDC/MACPF) domain and belongs to a large family of structurally related molecules that form pores involved in host immunity and bacterial pathogenesis. This protein initiates membrane attack complex formation by binding the C5b-C6 subcomplex and inserts into the phospholipid bilayer, serving as a membrane anchor. Mutations in this gene are associated with a rare disorder called C7 deficiency. [provided by RefSeq, Nov 2016]
Molecular Mass	119.9 kDa
AA Sequence	MKVISLFIILVGFIFGEFQSFSSASSPVNCQWDFYAPWSECNGCTKTQTRRRSVAVYG QYGGQPCVGNAFETQSCEPTRGCPTEEGCGERFRFCFSGQCISKSLVCNGDSDCD EDSAEDRCDSERRPSCDIDKPPPNIELTGNGYNELTGQFRNRVINTKSFGGQCR

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KVFSGDGKDFYRLSGNVLSYTFQVKINNDNFNYEFYNSTWSYVKHTSTEHTSSSRKR
 SFFRSSSSSSRSYTSHTNEIHKGKSYQLLVVENTVEVAQFINNNPEFLQLAEPFWKE
 LSHLPSLYDYSAYRRLIDQYGTHYLQSGSLGGEYRVLFFYVDSEKLGKQNDFNSLEEKK
 CKSSGWHFVVKFSSHGCKELENAKKAASGTQNNVLRGEPFIRGGGAGFISGLTYLE
 LDNPAGNKRRYSAWAESVTNLPQVIKQKLTPLYELVKEVPCASVKKLYLKWALEEYL
 DEFDPCHCRPCQNGGLATVEGTHCLCHCKPYTFGAACEQGVLVGNQAGGVDGGW
 SCWSSWSPCVQGKTRSRRECNNPPPSGGGRSCVGETTESTQCEDEELEHLRLE
 PHCFPLSLVPTEFCPSPPALKDGFVQDEGTMFPVGKNVVYTCNEGYSLIGNPVARC
 GEDLRWLVGEMHCQKIACVLPVLMDCIQSHPQKPFYTVGEKVTVSCSGGMSLEGP
 SAFLCGSSSLKWSPKMNARCVQKENPLTQAVPKCQRWEKLNQNSRCVCKMPYECG
 PSLDVCAQDERSKRILPLTVCKMHVLCQGRNYTLTGRDSCTLPASAEKACGACPL
 WGKCDAESSKCVCREASECEEEGFSICVEVNGKEQTMSECEAGALRCRGQSISVT
 SIRPCAAETQ

Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
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Notes	Best use within three months from the date of receipt of this protein.
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Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
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Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
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GENE INFORMATION

Gene Name	C7 complement component 7 [Homo sapiens]
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Official Symbol	C7
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Synonyms	C7; complement component 7; complement component C7;
Gene ID	730
mRNA Refseq	NM_000587
Protein Refseq	NP_000578
MIM	217070
UniProt ID	P10643

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