

Recombinant Human C3 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. C3-3052H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	C3 MS Standard C13 and N15-labeled recombinant protein (NP_000055) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Complement component C3 plays a central role in the activation of complement system. Its activation is required for both classical and alternative complement activation pathways. The encoded preproprotein is proteolytically processed to generate alpha and beta subunits that form the mature protein, which is then further processed to generate numerous peptide products. The C3a peptide, also known as the C3a anaphylatoxin, modulates inflammation and possesses antimicrobial activity. Mutations in this gene are associated with atypical hemolytic uremic syndrome and age-related macular degeneration in human patients.
Molecular Mass	187 kDa
AA Sequence	MGPTSGPSLLLLLLTHLPLALGSPMYSIITPNILRLESEETMVLEAHDAQGDVPVTVTV HDFPGKKLVLSSEKTVLTPATNHMGNVFTTIPANREFKSEKGRNKFVTVQATFGTQV VEKVVLVSLQSGYLFIQTDKTIYTPGSTVLYRIFTVNHKLLPVGRTVMVNIENPEGIPV KQDSLSSQNQLGVLPLSWDIPELVNMGQWKIRAYYENSPQQVFSTEFVKEYVLPS FEVIVEPTEKFYYIYNEKGLEVTITARFLYGKKVEGTAFVIFGIQDGEQRISLPESLKRI

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PIEDGSGEVVLSRKVLLDGVQNLRAEDLVGKSLYVSATVILHSGSDMVQAERSGIPIV
 TSPYQIHFTKTPKYFKPGMPFDLMVFVTNPDGSPAYRVPVAVQGEDTVQSLTQGDG
 VAKLSINTHPSQKPLSITVVRTKKQELSEAEQATRMTQALPYSTVGNSNNYLHLSVLRT
 ELRPGETLNVNFLLRMDRAHEAKIRYYTYLIMNKGRLKAGRQVREPGQDLVVLPLSI
 TTDIFPSFRLVAYYTLIGASGQREVVADSVWVDVKDSCVGSLLVKSQSEDRQPVP
 GQQMTLKIEGDHGARVVLVAVDKGVFVLNKKNKLTQSKIWDVVEKADIGCTPGSGK
 DYAGVFSDAGLTFTSSSGQQTAAQRAELQCPQPAARRRRSVQLTEKRMDKVGKYPK
 ELRKCCEDGMRENPMRFSCQRRTRFISLGEACKKVFLDCCNYITELRRQHARASHL
 GLARSNLDEIIAEENIVSRSEFPESWLWNVEDLKEPPKNGISTKLMNIFLKDSITTWE
 ILAVSMSDKKGICVADPFEVTVMQDFFIDLRLPYSVVRNEQVEIRAVLYNYRQNQELK
 VRVELLHNPAFCSLATTKRRHQQTVTIPPKSSLSVPYVIVPLKTGLQEVEVKAAYYHH
 FISDGVRSKLVVPEGIRMNKTVAVRTLDPERLGREGVQKEDIPPADLSDQVPDTE
 ETRILLQGTPVAQMTEDAVDAERLKHILVTPSGCGEQNMIGMTPTVIAVHYLDETEQ
 WEKFGLEKRQGALELIKKGYTQQLAFRQPSSAFAAFVKRAPSTWLTAYVVKVFLAV
 NLIADSQVLCGAVKWLILEKQKPDGVFQEDAPVIHQEMIGGLRNNNEKDMALTAFVL
 ISLQEAKDICEEQVNSLPGSITKAGDFLEANYMNLQRSYTVAIAGYALAQMGRLKGPL
 LNKFLTAKDKNRWEDPGKQLYNVEATSYALLALLQLKDFDFVPPVVRWLNEQRY
 GGGYGSTQATFMVFQALAQYQKDAPDHQELNLDVSLQLPSRSSKITHRIHWESASL
 LRSEETKENEGFTVTAEGKGQGTLSVVTMYHAKAKDQLTCNKFDLKVTIKPAPETEK
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 ELDKAFSDRNTLIYLDKVSHEDDCLAFKVHQYFNVELIQPGAVKVYAYYNLEESCT
 RFYHPEKEDGKLNKLCRDELCRAEENCFIGKSDDKVTLEERLDKACEPGVDYVYK
 TRLVKVQLSNDFDEYIMAIEQTIKSGSDEVQVGQQRFTFISPIKCREALKLEEKHYLM
 WGLSSDFWGEKPNLSYIIGKDTWVEHWPEEDEQCDEENQKQCQDLGAFTESMVFV
 GCPNTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

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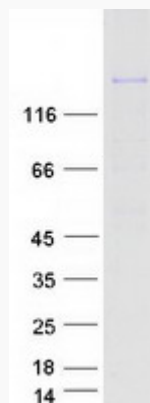
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Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.
GENE INFORMATION	
Gene Name	C3 complement component 3 [Homo sapiens (human)]
Official Symbol	C3
Synonyms	C3; complement component 3; complement C3; CPAMD1; complement component C3; acylation-stimulating protein cleavage product; C3 and PZP-like alpha-2-macroglobulin domain-containing protein 1; ASP; AHUS5; ARMD9;
Gene ID	718
mRNA Refseq	NM_000064
Protein Refseq	NP_000055
MIM	120700
UniProt ID	P01024

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SDS-PAGE

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