

Recombinant human C2

Catalog UCC001
Lot 1987
0.1 mg/vial

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Product description

Recombinant human complement protein C2 with an N-terminal his-tag. The cDNA of human complement component C2 (genbank NM_000063) was cloned, expressed in HEK293 and purified to homogeneity (figure 1). Each vial contains 200 µg C2 at a concentration of 0.4 mg/ml.

Complement Component C2 is a serum glycoprotein that functions as part of the classical pathway of the complement system. Activated C1 cleaves C2 into C2a and C2b. The serine proteinase C2a then combines with complement factor 4b to create the C3 or C5 convertase. Deficiency of C2 has been reported to be associated with certain autoimmune diseases. The gene localizes within the class III region of the MHC on the short arm of chromosome 6.

Sequence

marplctlllmatlagalagshhhhhhsapscpqnvnisggtftlshg
wapgslityscpqglyspasrlckssgqwqtpgatrslskavckpvr CPA
pvsfengiytprlgsypvggnvsfecedgfilrgspvrqcrpngmwdget
avcdngaghcpnpgislavrtgfrfghgdkvryrcssnlvtgsserecq
gngvwsgetpicrqpsysdfpedvapalgtfsfhmlgatnptqktkesl
grkiqirsghlNlyllldcsqsvsendflifkesaslmvdrifsfeinvsvaitf
asepkvlmsvlndnsrdmtevislenanykdhengtgtntyaalnsvgl
mmnnqmrlldmetmawqeirhaiilltdgksnmggspktavdhireil
ninqrndyldiyaigvgklvdwrelnelgskkdgerhafilqdtkalhq
vfehmldvskltdticgvgnmsanasdqertpwhvtikpksqetcrkali
sdqvwltahcfrdgnhdslwrnvngdpksqwgkefliekavispgfdv
fakknqgilefygddiallklakvkmstharpiclpctmeanalrrpqs
tcrdenellnkqsvpahfvalngsklnlnkmgvewtscaevvsqekt
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pl*

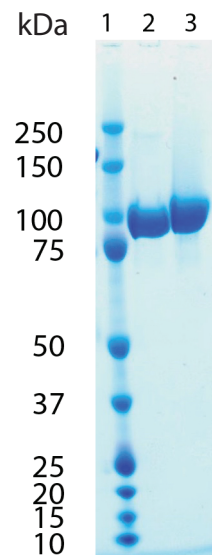


Figure 1. NuPage gel of purified recombinant C2. Lane 1, marker; 2; C2, non-reduced; 3, reduced

Storage, reconstitution and stability

Recombinant C2 should be stored at - 80 °C (stable for at least 1 year). The enzyme is stored in PBS containing 5 mM benzamidin HCl at 1 mg/ml. After thawing it should be stored in appropriate small aliquots at - 20 °C or - 80 °C (stable for at least 2 months).

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