

Recombinant complement Factor B

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Product description

Complement factor B is a component of the alternative pathway of complement activation. Factor B circulates in the blood as a single chain polypeptide. Upon activation of the alternative pathway, it is cleaved by complement factor D yielding the noncatalytic chain Ba and the catalytic subunit Bb. The active subunit Bb is a serine protease which associates with C3b to form the alternative pathway C3 convertase. Bb is involved in the proliferation of preactivated B lymphocytes, while Ba inhibits their proliferation. The mature protein of complement Factor B, residues 26 - 764, was cloned and expressed in HEK293EBNA1 cells and purified to homogeneity (figure 1). It contains an N-terminal hexahistidine tag. Each vial contains 100 µg factor B at a concentration of 1.6 mg/ml.

Storage and stability

Factor B should be stored at - 80 °C (stable for at least 1 year). The buffer contains 25 mM Tris 150 mM NaCl pH 7.5 without preservative. After thawing it should be stored in appropriate small aliquots at - 20 °C or - 80 °C (stable for at least 2 months).

Protein sequence

marplctlllmatlagalagshhhhhgstopwslarpqgscslegveikggsfrllq
egqaleyvcpsgfyypvqtrtrcstgswstlktqdqktvrkaecraihcprphdfe
ngeywprspyyvnsdeisfhcydgytlrgsanrtcqvngrwsgqtaicdngagy
csnpgipigtrkvgsqyrledsvtyhcsrgltlrgsqrrtcqeggswwgstepscqdsf
mydtpqevaeafssl tetiegvdadghgpggeqqkrkivldpsgsmniylvldg
sdsigasnftgakkclvnliekvasygvkpryglvtyatypkiwvkvsadssnad
wvtkqlneinyedhklksgtntkkalqavysmmswpddvppegwnrtrhviil
mtdglhnmggdpitvideirdllyigkdrknpredyldvyvfgvplvnqvninal
askkdneqhvfkvkmdenledvfyqmidesqslscgmvwwehrkgtdykhqp
wqakisvirpskghescmgavvseyfvltaahcftvddkehsikvsvggekrdlei
evvlfhpnyningkkeagipefydydvaliklnklkygqtrpiclpctegtrralrp
ptttcqqqkeellpaqdikalfvseeekkltrkevyikngdkkgscerdaqyapgy
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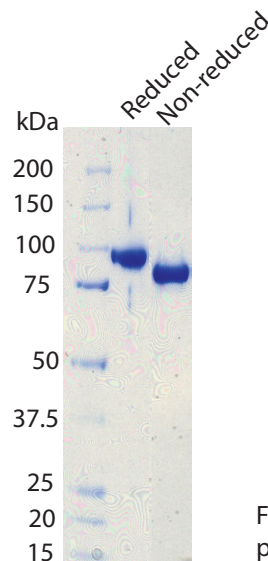


Figure 1. NuPage analysis of purified factor B

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