



# Recombinant Mouse Complement factor B (Cfb)

<b>Product Code</b>	CSB-YP005268MO
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P04186
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Mus musculus (Mouse)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	<p>TPVLEARP QVSCSLEGVE IKGGSFQLLQ GGQALEYLCP SGFYYPVQQT            RTCRSTGSWS DLQTRDQKIV QKAECRAIRC PRPQDFENGE FWPRSPFYNL            SDQISFQCYD GYVLRGSANR TCQENGRWDG QTAICDDGAG YCPNPGIPIG            TRKVGSQYRL EDIVTYHCSR GLVLRGSQKR KCQEGGSWSG            TEPSCQDSFM YDSPQEVAEA FLSSLTETIE GADAEDGHSP GEQQKRKIVL            DPSGSMNIYL VLDGSDSIGS SNFTGAKRCL TNLIEKVASV GVRPRYGLLT            YATVPKVLVR VSDERSSDAD WVTEKLNQIS YEDHKLKSGT NTKRALQAVY            SMMSWAGDAP PEGWNRTRHV IIIMTDGLHN MGGNPVTVIQ DIRALLDIGR            DPKNPREDYL DVYVFGVGPL VDSVNINALA SKKDNEHHVF KVKDMEDLEN            VFYQMIDETK SLSLCGMVWE HKKGNDYHKQ PWQAKISVTR PLKGHETCMG            AVVSEYFVLT AAHCFMVDDQ KHSIKVSVGG QRRDLEIEEV LFHPKYNING            KKAEGIPEFY DYDVALVKLK NKLKYGQTLR PICLPCTEGT TRALRLPQTA            TCKQHKEQLL PVKDVKALFV SEQGKSLTRK EVYIKNGDKK ASCERDATKA            QGYEKVKDAS EVVTPRFLCT GGVDPYADPN TCKGDSGGPL IVHKRSRFIQ            VGVISWGVVD VCRDQRRQQL VPSYARDFHI NLFQVLPWLK DKLKDEDLGF            L</p>
<b>Source</b>	Yeast
<b>Target Names</b>	Cfb
<b>Protein Names</b>	Recommended name: Complement factor B EC= 3.4.21.47 Alternative name(s): C3/C5 convertase Cleaved into the following 2 chains: 1. Complement factor B Ba fragment 2. Complement factor B Bb fragment
<b>Expression Region</b>	23-761
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	This gene encodes complement factor B, 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. This gene localizes to the major histocompatibility complex (MHC) class III region on



chromosome 6. This cluster includes several genes involved in regulation of the immune reaction. Polymorphisms in this gene are associated with a reduced risk of age-related macular degeneration. The polyadenylation site of this gene is 421 bp from the 5' end of the gene for complement component 2.

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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.