

CFB Protein, Mouse (His)

Cat. No.:	HY-P72137
Synonyms:	Cfb; Bf; H2-BfComplement factor B; EC 3.4.21.47; C3/C5 convertase; Complement factor B Ba fragment; Complement factor B Bb fragment
Species:	Mouse
Source:	E. coli
Accession:	P04186 (T23-L761)
Gene ID:	14962
Molecular Weight:	Approximately 87 kDa

PROPERTIES

AA Sequence

TPVLEARPQV	SCSLEGV E I K	GGSFQLLQGG	QALEYLCPSG
FYPYPVQTRT	CRSTGSWSDL	QTRDQKIVQK	AECRAIRCPR
PQDFENG EFW	PRSPFYNLSD	QISFQCYDGY	VLRGSANRTC
QENGRWDGQT	AICDDGAGYC	PNPGIPIGTR	KVGSQYRLED
IVTYHCSRGL	VL RGSQKRKC	QEGGSWSGTE	PSCQDSFMYD
SPQEVAAEAF	SSLTETIEGA	DAEDGHSPGE	QQRKIVLDP
SGSMNIYLV	DGSDSIGSSN	FTGAKRCLTN	LIEKVASYGV
RPRYGLLTYA	TVPKVLVRS	DERSSDADWV	TEKLNQISYE
DHKLKSGTNT	KRALQAVYSM	MSWAGDAPPE	GWNRTRHVI
IMTDGLHNMG	GNPVTVIQDI	RALLDIGRDP	KNPREDYLDV
YVFGVGPLVD	SVNINALASK	KDNEHHVFKV	KDMEDLENVF
YQMIDETKSL	SLCGMVWEHK	KGNDYHKQPW	QAKISVTRPL
KGHETCMGAV	VSEYFVLTA	HCFMVDDQKH	SIKVS VGGQR
RDLEIEEVLF	HPKYNINGKK	AEGIPEFYDY	DVALVKLKNK
LKYGQTLRPI	CLPCTEGTTR	ALRLPQTATC	KQHKEQLLPV
KDVKALFVSE	QGKSLTRKEV	YIKNGDKKAS	CERDATKAQG
YEKVKDASEV	VTPRFLCTGG	VDPYADPNTC	KGDSGGPLIV
HKRSRFIQVG	VISWGVVDVC	RDQRRQQLVP	SYARDFHINL
FQVLPWLKDK	LKDEDLGF		

Appearance

Lyophilized powder.

Formulation

Lyophilized from a 0.2 µm solution of Tris-based buffer, 50% Glycerol.

Endotoxin Level

<1 EU/µg, determined by LAL method.

Reconstitution

It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH₂O.

Storage & Stability

Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping

Room temperature in continental US; may vary elsewhere.

DESCRIPTION**Background**

CFB, or complement factor B, is an integral component of the alternate pathway within the complement system. The protein undergoes cleavage by factor D, resulting in the formation of two distinct fragments: Ba and Bb. Of particular significance, Bb functions as a serine protease and subsequently associates with complement factor 3b. This complex formation gives rise to the C3 or C5 convertase, a pivotal enzyme involved in the activation of the complement cascade. The described molecular events underscore the central role of CFB in the intricate regulatory mechanisms of the complement system, shedding light on its contribution to immune responses.

Caution: Product has not been fully validated for medical applications. For research use only.

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