
Product Data Sheet

Product Name: CFB Human
 Cat. No.: GP23130
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Complement factor B (EC:3.4.21.47); C3/C5 convertase; Glycine-rich beta glycoprotein; GBG; PBF2; Properdin factor B; Complement factor B Ba fragment; Complement factor B Bb fragment; CFB; Complement Factor B; BFD; AHUS4; BF; BFD; CFAB; FB; FBI12; H2-Bf.		
Amino Acid Sequence	<p>MGSSHHHHHH SSGLVPRGSH MGSKIVLDPS GSMNIYLVLD GSDSIGASNF TGAKKCLVNL IEKVASYGVK PRYGLVTYAT YPKIWVKVSE ADSSNADWWT KQLNEINYED HKLKSGTNTK KALQAVYSMM SWPDDVPPEG WNRTRHVIL MTDGLHNMGG DPITVIDEIR DLLYIGKDRK NPREDYLDVY VFGVGPLVNQ VNINALASKK DNEQHVFKVK DMENLEDVFY QMIDESQSLS LCGMVWEHRK GTDYHKQPWQ AKISVIRPSK GHESCMGAVV SEYFVLTAAH CFTVDDKEHS IKVSVGGEKR DLEIEVLFH PNYNINGKKE AGIPEFYDYD VALIKLKNKL KYGQTIRPIC LPCTEGTTRA LRLPPTTTCQ QQKEELLPAQ DIKALFVSEE EKKLTRKEVY IKNGDKKGSC ERDAQYAPGY DKVKDISEVV TPRFLCTGGV SPYADPNTCR GDSGGPLIVH KRSRFIQVGV ISWGVVDVCK NQKRQKQVPA HARDFHINLF QVLPWLKEKL QDEDLGFL.</p>		
Formulation	The CFB solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M UREA and 10% glycerol.		

Introduction

Complement Factor B, also known as CFB, encodes complement factor B which is a component of the alternative pathway of complement activation. Factor B circulates in the blood as a single chain polypeptide. Once the alternative pathway is activated 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 connects with C3b to form the alternative pathway C3 convertase. Also, Bb is involved in the proliferation of

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

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preactivated B lymphocytes, while Ba inhibits their proliferation.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

CFB Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 528 amino acids (260-764) and having a molecular mass of 59.4 kDa. CFB is fused to a 23 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

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