
Product Data Sheet

Product Name: CFB (26-259) Human

Cat. No.: GP23131

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	MGSSHHHHHH SSGLVPRGSQ SHMTPWSLAR PQGSCSLEGV EIKGGSFRL QEGQALEYVC PSGFYYPVQ TRTCRSTGSW STLKTQDQKT VRKAECRAIH CPRPHDFENG EYWPRSPYYN VSDEISFHCY DGYTLRGSAN RTCQVNGRWS GQTAICDNGA GYCSNPGIPI GTRKVG SQYR LEDSVTYHCS RGLTLRGSQR RTCQEGGSWS GTEPSCQDSF MYDTPQEVAE AFLSSLTETI EGVDAEDGHG PGEQQKR.		
Formulation	The CFB solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 10% glycerol and 0.4M Urea.		

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 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%

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

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HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

CFB (26-259) Human Recombinant produced in E. coli is a single polypeptide chain containing 257 amino acids and having a molecular mass of 28.4kDa. CFB is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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