
Product Data Sheet

Product Name: CFB Human, Sf9

Cat. No.: GP23132

Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	CFB; AHUS4; ARMD14; BF; BFD; CFAB; CFBD; FB; FBI12; GBG;H2-Bf; PBF2; Complement Factor B; B-Factor; Properdin; Properdin Factor B;C3/C5 Convertase; EC 3.4.21.47; PBF2;Glycine-Rich Beta-Glycoprotein;Glycine-Rich Beta Glycoprotein; C3 Proaccelerator; C3 Proactivator ; EC 3.4.2;FBI12; H2-Bf.		
Amino Acid Sequence	ADPEFTPWSLARPQGSCSLE GVEIKGG SFR LLQEGQALEY VCP SGFY PYP VQTRTCRSTG SWSTLKTQDQ KTVRKAECRAIH CPRPHDFE NGEYWPRSPY YNVSDEISFH CYDGYTLRGS ANRTCQVNGR WSGQTAICDN GAGYCSNPGIPIGTRKVG SQ YRLEDSVTYH CSRGLTLRGS QRRTCQEGGS WSGTEPSCQD SFMYDTPQEV AEAFLSSLTETIEGVDAEDG HGPGEQQKRH HHHHH.		
Formulation	CFB protein solution (0.5mg/ml) contains PhosphateBuffered Saline (pH 7.4) 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 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

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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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 Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 245 amino acids (26-259 a.a.) and having a molecular mass of 27.3 kDa (Molecular size on SDS-PAGE will appear at approximately 28-40 kDa). CFB is expressed with a 11 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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