
Product Data Sheet

Product Name: CFD Human
Cat. No.: GP26252
Batch No.: 1

Product Data

Purity	>98%	Source	Human Plasma.
Physical Appearance	solid	Shipping Condition	withIcePacks
Synonyms	Complement factor D, Adipsin, C3 convertase activator, Properdin factor D, CFD, DF, PFD.		
Formulation	CFD protein solution contains 10mM Sodium phosphate and 145mM NaCl, pH 7.3.		

Introduction

CFD is an important component of the alternative pathway of complement activation. CFD cleaves and activates factor B when it binds C3b or a C3b-like protein such as C3 or C5. CFD is a serine protease that exists as a mature protease, but it exhibits a highly restricted specificity and it appears to be substrate activated. CFD cleaves factor B bound to C3b leading to the release of the Ba fragment and leaving the Bb fragment bound to C3b. The C3b,Bb complex is called a C3 or C5 convertase because it converts these proteins to their active forms by cleaving off the small peptides C3a and C5a, respectively.

Stability

CFD Human is stable at 4°C if entire vial will be used within 2-4 weeks. Store, frozen below -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

Human Complement Factor D produced in Human plasma is glycosylated polypeptide chain having a total molecular mass of 24kDa.

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

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