
Product Data Sheet

Product Name: C3d Human

Cat. No.: GP26221

Batch No.: 1

Product Data

Purity	>98%	Source	Human Plasma.
Physical Appearance	solid	Shipping Condition	withIcePacks
Synonyms	Complement C3, C3 and PZP-like alpha-2-macroglobulin domain-containing protein 1, C3, CPAMD1.		
Formulation	C3d solution contains phosphate buffered saline, pH 7.2.		

Introduction

C3d is derived from human C3 after a series of proteolytic cleavages. C3d is prepared from purified human C3. The C3 is converted to C3b by treatment with the natural human C3 convertase and this C3b is converted to iC3b. Finally, this iC3b is cleaved with trypsin to yield C3d. If the C3b precursor was attached to a surface (as occurs during complement activation) the iC3b, C3dg and C3d fragments would remain covalently attached to that surface. C3d is able to attach to a surface only during complement activation on a surface. Surface-bound C3d is linked to the target through an ester or an amide covalent bond. Ester bonds are unstable, thus C3d releases from the particle.

Stability

C3d 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 C3d produced in Human plasma having a molecular mass of 33.8kDa.

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

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