9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
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C3b Human

Complement C3b Human
RCP0284

Product Overview

Name	C3b Human
Description	
Complement C3b Human	
Accession (Primary)	P01024
Synonyms	
Complement C3, C3 and PZP-like alpha-2-macroglobulin domain-containing protein 1, C3, CPAMD1.	
Introduction	
C3b is derived from native C3 upon cleavage with the alternative pathway C3 convertase and release of C3a.Native human C3b is a glycosylated polypeptide chain having2 disulfide-linked chains. C3b is essential to the function of all 3complement pathways.Initiation of each pathway generates proteolytic enzyme complexes (C3 convertases) which binds the target surface. These enzymes cleave a peptide bond in C3 releasing the anaphylatoxin C3a and activating C3b. Most of the C3b created during complement activation. Surface-bound C3b is needed in all 3 pathways for effective activation of C5 and formation of C5b-9 complexes which lyse the target cell membrane. Surface-bound C3b and its breakdown products iC3b and C3d are identifyid by various receptors on lymphoid and phagocytic cells which use the C3b ligand to stimulate antigen presentation to cells of the adaptive immune system. It results in an expansion of target-specific B-cell and T-cell populations.	
Source	
Human Plasma.	
Physical Appearance	
Sterile filtered solution.	
Formulation	
C3b solution contains Phosphate buffered saline, pH 7.2.	
Stability	
C3b 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 .	
Purity	
Greater than 95.0% as determined by SDS-PAGE .	

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Human Virus Test

Plasma from each donor has been tested and found negative for antibody to HIV-1, HIV-2, HCV and HBSAG.

Precautions

C3b Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P01024)