

Complement C3 Protein (Active)

Catalog# BNP1004

Lot # Check on the product label

Size 100 µg

Description

Purified human Complement C3 protein.

Synonyms Complement C3, C3 and PZP-like alpha-2-macroglobulin domain-containing protein 1, C3, CPAMD1

Source Human plasma

Purity >90% by SDS-PAGE

Formulation Liquid

Application

ELISA

Other applications have not been tested.

The optimal dilutions should be determined by end user.

Storage buffer

Each vial contains 10mM PBS (pH7.4).

Storage & Expiration

Ship at 4°C. Upon receipt, aliquot and store at -20°C or -80°C for long term.

Avoid repeated freeze and thaw cycles.

Background

Complement component 3, often simply called C3, is a member of the complement system. The complement system is an important mediator of natural and acquired immunity. It consists of approximately 30 proteins that can exhibit catalytic activity, function as regulators, or act as cellular surface receptors. These components normally circulate in inactive forms and are activated by the classical, alternative,

or lectin pathways. Complement component 3 plays a central role in all 3 activation pathways. People with C3 deficiency are susceptible to bacterial infection. Clinically, the Level of C3 in the blood may be measured to support or refute a particular medical diagnosis. For example, low C3 levels are associated with some types of kidney disease such as post-infectious glomerulonephritis and shunt nephritis.

Reference

1. Reis, E. S., Falcao, D. A., Isaac, L. Clinical aspects and molecular basis of primary deficiencies of complement component C3 and its regulatory proteins factor I and factor H. Scand. J. Immunol. 63: 155-168, 2006.
2. Lachmann P (December 1975). "Genetics of the complement system". J. Med. Genet. 12 (4): 372–7.
3. Matsuyama W, Nakagawa M, Takashima H, Muranaga F, Sano Y, Osame M (December 2001). "Molecular analysis of hereditary deficiency of the third component of complement (C3) in two sisters". Intern. Med. 40 (12): 1254–8.

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