CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET

Product name	Complement Factor H, Human, Natural		
Catalog number	HC2130		
Lot number	-	**Expiry date**	-
Volume	0.25 ml	**Activity**	N.A.
Formulation	PBS, pH 7.2	**Amount**	~250 µg
Host Species	Human, isolated from healthy blood donors	**Concentration**	~1 mg/ml
Endotoxin	N.A.	**Purification**	N.A.
Storage	-70°C	**Purity**	>90%

Application notes

Human blood test results	
HBsAg	negative
Anti-HCV	negative
Anti-HIV 1 and II	negative

The blood donors have been tested and found negative for various viruses.

General Information

Description CFH is the first regulatory protein of the alternative pathway of the complement system. There are three pathways of complement activation; classical, alternative, and lectin activation pathway. These pathways converge to form C3/C5 convertases that generate C3a, C3b,C5a, and C5b, each with substantial biologic activity. Complement regulators are necessary to prevent the injudicious production of these mediators and potential injury to self-tissue. The plasma proteins CFH, C4-binding protein and the cell membrane proteins complement receptor 1 (CR1; CD35), decay-accelerating factor (CD55), and membrane co-factor protein (CD46) all are members of the regulators of complement activation family. These proteins have natural affinity for C3b and/or C4b, which confers on them the ability to accelerate the intrinsic decay of C3/C5 convertases and/or act as co-factor for the cleavage and inactivation (i) of C3b and C4b by complement factor I (CFI). Genetic human analyses reveals a clear association of CFH with different human diseases. These include diseases of the kidney, the atypical form of Hemolytic Uremic Syndrome (aHUS) and membranoproliferative glomerulonephritis (MPGN). Furthermore, CFH is associated with age-related macular degeneration (AMD), a disease of the eye.

Cross reactivity Trace amounts of IgG, IgM, IgA, albumin, ceruloplasmin, C3, C4, Factor B, Factor P or Factor I: <0.1%

Storage&stability Product should be stored at –70°C. Repeated freeze and thaw cycles will cause loss of activity. Use Complement factor H protein within 24 hours after thawing and keep on ice. Remainder amounts should be aliquoted and immediately re-freezed for future use. Aliquots should never be thawed more than once. Under recommended storage conditions, product is stable for at least one year.

Precautions For research use only. Not for use in or on humans or animals or for diagnostics. It is the responsibility of the user to comply with all local/state and federal rules in the use of this product. Hycult Biotech is not responsible for any patent infringements that might result from the use or derivation of this product.

We hereby certify that the above-stated information is correct and that this product has been successfully tested by the Quality Control Department. This product was released for sale according to the existing specifications. This document has been produced electronically and is valid without a signature.

Approved by Manager of QC
Robbert Zwinkels

Date
27/03/2018

Do you have any questions or comments regarding this product? Please contact us via support@hycultbiotech.com.