

**CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET**

<b>Product name</b>	C4, Human, Natural		
<b>Catalog number</b>	HC2128		
<b>Lot number</b>	-	<b>Expiry date</b>	-
<b>Volume</b>	0.25 ml	<b>Activity</b>	Titer with human C4 depleted serum U/mg
<b>Formulation</b>	PBS, pH 7.2	<b>Amount</b>	~50 µg
<b>Host Species</b>	Human, isolated from healthy blood donors	<b>Concentration</b>	~0.5 mg/ml
<b>Endotoxin</b>	N.A.	<b>Purification</b>	N.A.
<b>Storage</b>	-70°C	<b>Purity</b>	>90%

**Application notes**

	IHC-F	IHC-P	IF	FC	FS	IA	IP	W
Reference #								
Yes					•			
No								
N.D.	•	•	•	•		•	•	•

N.D.= Not Determined; IHC = Immuno histochemistry; F = Frozen sections; P = Paraffin sections; IF = Immuno Fluorescence; FC = Flow Cytometry; FS = Functional Studies; IA = Immuno Assays; IP = Immuno Precipitation; W = Western blot

Human blood test results	
HBsAg	negative
STS	negative
HTLV-I/II	negative
Anti-HCV	negative
Anti-HIV 1 and II	negative

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

For functional studies, in vitro dilutions have to be optimized in user's experimental setting.

- The biological activity of C4 is defined as the amount of C4 required to yield 50% lysis of sensitized erythrocytes (EA).

**General Information**

<b>Description</b>	The classical pathway of complement and the Mannose binding lectin activation pathway converge at C4. C1s, MASP-1 and MASP-2 cleave C4 resulting in the formation of C4a and C4b. The latter can be cleaved to result in C4c and C4d in which step all functional sites are lost. The monoclonal antibody 16D2 reacts with intact C4, C4b and C4d. C4 is an acute phase protein that is produced by hepatocytes, monocytes and intestinal epithelial cells.
<b>Cross reactivity</b>	Trace amounts of functionally active C3
<b>Storage&amp;stability</b>	Product should be stored at -70°C. Repeated freeze and thaw cycles will cause loss of activity. Use C4 protein within 24 hours after thawing and keep on ice. Remainder amounts should be aliquoted and immediately re-frozen for future use. Aliquots should never be thawed more than once. Under recommended storage conditions, product is stable for at least one year.
<b>Precautions</b>	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  
30/03/2018

Do you have any questions or comments regarding this product? Please contact us via [support@hycultbiotech.com](mailto:support@hycultbiotech.com).