

CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET

Product name	C5L2, Rat, Peptide	Expiry date	-
Catalog number	HC3103		
Lot number	-	Activity	N.A.
Volume	Reconstitute with 100 µl distilled/de-ionized water	Amount	10 µg
Formulation	Lyophilized product in PBS	Concentration	N.A.
Host Species	Rat, peptide	Purification	N.A.
Endotoxin	N.A.	Purity	N.A.
Storage	4°C		

Application notes

For dilutions use protein stabilized phosphate buffered saline, pH 7.4.

General Information

Description	The orphan receptor C5L2 is a seven transmembrane receptor with 40% amino acid sequence identity to the C5a receptor, CD88. Expression has been found on granulocytes and immature dendritic cells. In contrast to CD88, C5L2 is uncoupled from G proteins due to an amino acid replacement of arginine by leucine in the so called DRY region at the end of the third intracellular transmembrane domain. Following C5a binding, C5L2 seems neither to induce classical signaling nor to cause biological responses. When C5L2 was transfected into several cell types, C5a failed to induce chemotaxis, degranulation, or intracellular calcium mobilization. The high affinity of C5L2 for C5a and its metabolite, C5adesArg and a low affinity for C3a and C3adesArg suggest that this receptor is a scavenger of complement fragments involved in the defense against the harmful side effects of complement activation. C5L2 expression on human neutrophils is known to be decreased in sepsis; loss of expression may be a prognostic indicator in this condition as survivors of sepsis tend to have higher C5L2 levels. Rat C5L2 peptide has the following amino acid sequence: MLNDTTSKDYEYEDQEYSDLLNVPVDC.
Aliases	C5a receptor
References	<ol style="list-style-type: none"> 1. Cain, S et al; The orphan receptor C5L2 has high affinity binding sites for complement fragments C5a and C5a des-Arg⁷⁴. J Biol Chem 2002, 277: 7165 2. Kalant, D et al; The chemoattractant receptor-like protein C5L2 binds the C3a des-Arg⁷⁷/acylation-stimulating protein. J Biol Chem 2003, 278: 11123 3. Huber-Lang, M et al; Changes in the novel orphan, C5a receptor (C5L2), during experimental sepsis and sepsis in humans. J Immunol 2005, 174: 1104
Storage&stability	Lyophilized product should be stored at 4°C. Store stock solution after reconstitution in aliquots at -70°C. Repeated freeze and thaw cycles will cause loss of activity. Under recommended storage conditions, product is stable for one year.
Precautions	Caution: vial is under vacuum. 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
29/03/2018

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