

Human C5aR1 VLP

Cat. No. C5R-HM00V

Description

Source	Recombinant Human C5aR1 VLP is expressed from HEK293. It contains Met1-Val350 (It may have cross reaction with anti-His antibody).
Accession	P21730
Molecular Weight	The target protein has a predicted MW of 42.55 kDa.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by HPLC

Formulation and Storage

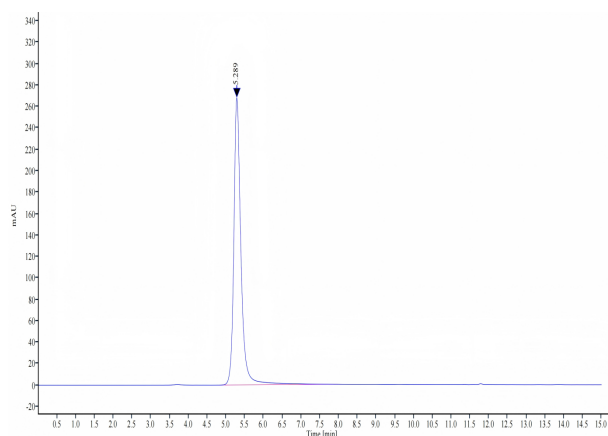
Formulation	Supplied as 0.22 µm filtered solution in PBS, 300mM L-arginine (pH 7.4). Notice: If you need it for immunization, water-soluble adjuvant is recommended.
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

C5a receptor 1 (C5aR1), a membrane-bound G protein-coupled receptor (GPCR), is the most commonly studied C5a receptor. The complement system is an important constituent of the innate immune response, and it regulates humoral immunity and pathogen immune surveillance and maintains tissue homeostasis. The C5a/C5aR1 activation pathway has been implicated in various inflammatory processes, the pathogenesis of immune diseases, and tumor growth.

Assay Data

SEC-HPLC

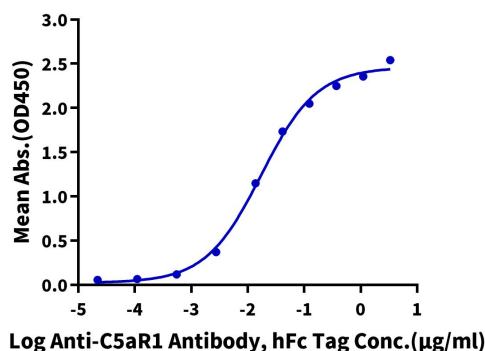


The purity of Human C5aR1 VLP is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human C5aR1 VLP ELISA

0.5µg Human C5aR1 VLP Per Well



Immobilized Human C5aR1 VLP at 5µg/ml (100µl/well) on the plate. Dose response curve for Anti-C5aR1 Antibody, hFc Tag with the EC50 of 17.3ng/ml determined by ELISA.