

Recombinant Human Complement Component C5a

Catalog No: #AP60485



Package Size: #AP60485-1 5ug #AP60485-2 100ug #AP60485-3 500ug

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Description

Product Name	Recombinant Human Complement Component C5a
Host Species	Escherichia coli.
Purification	> 98 % by SDS-PAGE and HPLC analyses.
Calculated MW	Approximately 8.3 kDa, a single non-glycosylated polypeptide chain containing 74 amino acids.
Target Sequence	TLQKKIEEIA AKYKHSVVKK CCYDGACVNN DETCEQRAAR ISLGPRIKA FTECCVVASQ LRANISHKDM QLGR
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <input type="checkbox"/> A minimum of 12 months from date of receipt, when stored at ≤-20 °C as supplied. <input type="checkbox"/> 1 month, 2 to 8 °C under sterile conditions after reconstitution. <input type="checkbox"/> 3 months, -20 to -70 °C under sterile conditions after reconstitution.

Background

Complement C5, also named C3 and PZP-like alpha-2-macroglobulin domain-containing protein 4, is involved in the complement system and it is encoded by the C5 gene in human. Complement C5 is cleaved into C5a and C5b. C5a plays an important role in chemotaxis and C5b forms the first part of the complement membrane attack complex. Complement C5 is the fifth component of complement, which plays an important role in inflammatory and cell killing processes. This protein is composed of alpha and beta polypeptide chains that are linked by a disulfide bridge. An activation peptide, C5a, which is an anaphylatoxin that possesses potent spasmogenic and chemotactic activity, is derived from the alpha polypeptide via cleavage with a convertase. The C5b macromolecular cleavage product can form a complex with the C6 complement component, and this complex is the basis for formation of the membrane attack complex, which includes additional complement components.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.