

## Complement C5/C5a Protein, Human

Cat. No.:	HY-P7864
Synonyms:	rHuComplement C5/C5a; Complement C5; C5a anaphylatoxin; C5a
Species:	Human
Source:	E. coli
Accession:	P01031 (T678-R751)
Gene ID:	727
Molecular Weight:	Approximately 12.0 kDa

### PROPERTIES

AA Sequence	T L Q K K I E E I A    A K Y K H S V V K K    C C Y D G A C V N N    D E T C E Q R A A R I S L G P R C I K A    F T E C C V V A S Q    L R A N I S H K D M    Q L G R
Biological Activity	Data is not available.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer. It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	<p>Complement component 5a (C5a) is a 74 amino acid glycoprotein and an important proinflammatory mediator that is cleaved enzymatically from its precursor, C5, on activation of the complement cascade. C5a is quickly metabolised by carboxypeptidases, forming the less-potent C5a desArg. C5a and C5a desArg interact with their receptors (C5aR and C5L2), which results in a number of effects which are essential to the immune response. C5a has a broad range of biological effects throughout the human body because the widespread expression of C5a receptors throughout the human organs enables C5a and C5a desArg to elicit a broad range of biological effects<sup>[2]</sup>.</p>
------------	--

### REFERENCES

---

[1]. An G, et al. Role of C5a-C5aR axis in the development of atherosclerosis. *Sci China Life Sci.* 2014;57(8):790-794.

[2]. Haggadone MD, et al. Bidirectional Crosstalk between C5a Receptors and the NLRP3 Inflammasome in Macrophages and Monocytes. *Mediators Inflamm.* 2016;2016:1340156.

---

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA