

## Complement C5/C5a Protein, Human (His)

Cat. No.:	HY-P700959
Synonyms:	C5a; Complement C5; C5; CPAMD4; ECLZB
Species:	Human
Source:	E. coli
Accession:	P01031 (T678-R751)
Gene ID:	727
Molecular Weight:	13-14 kDa

### PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22µm filtered solution of 20mM PB, 500mM NaCl, 10% glycerol, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

### DESCRIPTION

Background	Upon activation by a C5 convertase, Complement C5 initiates the spontaneous assembly of the late complement components, C5-C9, forming the membrane attack complex. The transient binding site for C6 on C5b is crucial for the foundation of the lytic complex. The proteolytic degradation of complement C5 produces C5a anaphylatoxin, a mediator of local inflammatory processes. C5a interacts with its receptor C5AR1, triggering diverse responses such as intracellular calcium release, smooth muscle contraction, increased vascular permeability, and histamine release from mast cells and basophilic leukocytes. Acting as a potent chemokine, C5a stimulates the locomotion of polymorphonuclear leukocytes and guides their migration toward sites of inflammation, contributing to the orchestration of immune responses.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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