

Complement C5/C5a Protein, Mouse (Biotinylated)

Cat. No.:	HY-P77540
Synonyms:	Complement C5; Hemolytic Complement; C5a
Species:	Mouse
Source:	E. coli
Accession:	P06684 (N679-R755)
Gene ID:	15139
Molecular Weight:	Approximately 9 kDa.

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
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 ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). 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	Complement C5/C5a Protein, when activated by a C5 convertase, triggers the spontaneous assembly of the late complement components into the membrane attack complex, C5-C9. C5b forms a transient binding site for C6, forming the foundation for the assembly of the lytic complex. Meanwhile, C5a, produced through proteolytic degradation of complement C5, acts as an anaphylatoxin mediating local inflammatory processes. Its binding to the receptor C5AR1 induces various responses such as intracellular calcium release, smooth muscle contraction, increased vascular permeability, and histamine release from mast cells and basophilic leukocytes. Additionally, C5a acts as a potent chemokine, stimulating the movement of polymorphonuclear leukocytes and guiding their migration towards inflamed areas.
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Caution: Product has not been fully validated for medical applications. For research use only.

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