

Complement C3 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P78247
Synonyms:	Complement C3; HSE-MSF; C3; CPAMD1; AHUS5; ARMD9; ASP; C3a; C3b; HEL-S-62p
Species:	Mouse
Source:	HEK293
Accession:	P01027 (I25-N1663)
Gene ID:	12266
Molecular Weight:	65-68 kDa & 110-115 kDa & 165-180 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μ m filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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 C3/C3a protein plays a pivotal role in the activation of the complement system, being the central reaction in both classical and alternative pathways. Following activation, C3b can bind covalently to cell surface carbohydrates or immune aggregates through its reactive thioester. C3a, derived from the proteolytic degradation of complement C3, acts as a local inflammatory mediator, inducing neutrophil chemoattraction and promoting smooth muscle contraction, increased vascular permeability, and histamine release from mast cells and basophilic leukocytes. Additionally, the shorter isoform of C3a exhibits B-cell stimulatory activity.
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Caution: Product has not been fully validated for medical applications. For research use only.

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