

Product Data Sheet

Complement C5/C5a Protein, Cynomolgus

Cat. No.:	HY-P78595
Synonyms:	C5a; Complement Component 5a
Species:	Cynomolgus
Source:	E. coli
Accession:	XP_015292262.1 (M678-R751)
Gene ID:	/
Molecular Weight:	Approximately 11 kDa

DDODEDTIES		
PROPERTIES		
AA Sequence	MLQEKIEEIA AKYKHLVVKK CCYDGVRINH DETCEQRAAR ISVGPRCVKA FTECCVVASQ LRANNSHKDL QLGR	
Biological Activity	 Immobilized Cynomolgus Complement C5a at 2 μg/mL (100 μL/well) can bind Anti-C5a (Human IgG1) with a linear range of 0.8-13 ng/mL. Immobilized C5a at 2 μg/mL (100 μL/well) can bind anti-C5a. The ED₅₀ for this effect is 41.72 ng/mL, corresponding to a specific activity is 2.39×10⁴ units/mg. 	
Appearance	Lyophilized powder	
Formulation	Lyophilized a 0.22 μm filtered solution of PBS, pH 7.4.	
Endotoxin Level	<1 EU/ μ g, determined by LAL method.	
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/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

BackgroundUpon 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

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

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