

Product Data Sheet

Complement C3/C3 Protein, Bovine (His-SUMO)

Cat. No.:	HY-P71552
Synonyms:	C3Complement C3; Complement C3b alpha' chain; Complement C3c alpha' chain fragment 1; Complement C3dg fragment; Complement C3g fragment; Complement C3d fragment; Complement C3f fragment; Complement C3c alpha' chain fragment 2]
Species:	Bovine
Source:	E. coli
Accession:	Q2UVX4 (S747-Q953)
Gene ID:	280677
Molecular Weight:	Approximately 44 kDa. The reducing (R) protein migrat es as 44 kDa in SDS-PAGE maybe due to relative charge.

PROPERTIES

AA Sequence	SDLDDDIIPEEDIISRSQFPESWLWTVIEDLKQADKNGISTKLMNVFLKDSITTWEILAVSLSDKKGICVADPYEVTVMQDFFIDLRLPYSVVRNEQVEIRAILYNYREAENLKVRVELLYNPAFCSLATAKKRHQQTITIPARSSVAVPYVIVPLKIGLHEVEVKAAVYNHFISDGVKKTLKVVPEGVRVNKTVAVRTLNPEHLGQ
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in 10 mM Tris-HCl, 1 mM EDTA, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 $\mu\text{g}/\text{mL}$ in ddH_2O.
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.

SCRIPTION	
Background	C3 assumes a pivotal role in the initiation of the complement system, serving as a substrate for C3 convertase in both classical and alternative pathways. Upon activation, C3 undergoes proteolytic cleavage, generating C3b, which can covalently bind to cell surface carbohydrates or immune aggregates through its reactive thioester moiety. Concurren anaphylatoxin C3a is produced as a result of C3 degradation, functioning as a mediator in local inflammatory process

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

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