Datasheet

Product Name	Recombinant Mouse Complement C1q subcomponent subunit A(C1qa)
Catalog Number	**AAA18516**
Expression host	*E.coli*
Product Info	N-terminal 6xHis-SUMO-tagged
Buffer	Lyophilized from 10 mM Tris-HCl, 1 mM EDTA, 6% Trehalose, pH 8.0. The volume before lyophilization is 100μl/vial.
Storage	Store at -20℃, for extended storage, conserve at -20℃ or -80℃.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4℃ for up to one week.
Relevance	C1q associates with the proenzymes C1r and C1s to yield C1, the first component of the serum complement system. The collagen-like regions of C1q interact with the Ca2+-dependent C1r2C1s2 proenzyme complex, and efficient activation of C1 takes place on interaction of the globular heads of C1q with the Fc regions of IgG or IgM antibody present in immune complexes.
AA sequence	EDVCRAPNGKDGAPGNPGRPGRPGLKGERGEPGAAGIRTGIRGFKGDPGESGPP GKPGNVGLPGPSGPLGDSGPQGLKGVKGNPGNIRDQPRPAFSAIRQNPMTLGNV VIFDKVLTNQESPYQNHTGRFICAVPGFYYFNFQVISKWDLCLFIKSSSGGQPRD SLSFSNTNNKGLFQVLAGGTVLQLRRGDEVWIEKDPAKGRIYQGTEADSIFSGF LIFPSA
References	"The transcriptional landscape of the mammalian genome." Carninci P., Kasukawa T., Katayama S., Gough J., Frith M.C., Maeda N., Oyama R., Ravasi T., Lenhard B., Wells C., Kodzius R., Shimokawa K., Bajic V.B., Brenner S.E., Batalov S., Forrest A.R., Zavolan M., Davis M.J. Hayashizaki Y. Science 309:1559-1563(2005)

Certificate of Analysis

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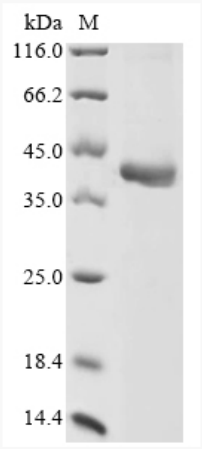
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20℃/-80℃. Our default final concentration of glycerol is 50%. Customers could use it as reference.	
Batch Number	DA04816b1g0	
Nature	Mouse C1qa-(AA 23-245)-**P98086-**Full Length of Mature Protein	
Purification	Affinity purified using IMAC	
Recommended Storage	Short term	2 to 8 ℃, one week from the date of receipt
	Long term	-20 to -80 ℃, twelve months from the date of receipt
Form	Lyophilized powder	
Date of detection	2021.11.19	

Test Items	**Specifications**		**Results**
Purity	≥90%, by SDS-PAGE quantitative densitometry by Coomassie Blue Staining.		90%
Molecular Weight	Predicted band size: 39.6 kDa		Observed band size: 42 kDa

Electrophoretic parameters	(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.
Aseptic Processing	Not done
Endotoxin Level	Untreated
Activity	Not tested
Conclusion	pass