C1QA Protein, Mouse (His-SUMO)

Cat. No.:	HY-P72108
Synonyms:	C1qaComplement C1q subcomponent subunit A
Species:	Mouse
Source:	E. coli
Accession:	P98086 (E23-A245)
Gene ID:	12259
Molecular Weight:	Approximately 39.6 kDa

PROPERTIES

AA Sequence	E D V C R A P N G K D G A P G N P G R P G R P G L K G E R G E P G A A G I R T G I R G F K G D P G E S G P P G K P G N V G L P G P S G P L G D S G P Q G L K G V K G N P G N I R D Q P R P A F S A I R Q N P M T L G N V V I F D K V L T N Q E S P Y Q N H T G R F I C A V P G F Y Y F N F Q V I S K W D L C L F I K S S S G G Q P R D S L S F S N T N N K G L F Q V L A G G T V L Q L R R G D E V W I E K D P A K G R I Y Q G T E A D S I F S G F L I F P S A
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm solution of 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 μg/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.

DESCRIPTION

Background	C1QA protein plays a pivotal role in the formation of C1, the initiating component of the serum complement system. C1q associates with the proenzymes C1r and C1s, resulting in the assembly of C1. The collagen-like regions of C1q engage with the Ca(2+)-dependent C1r(2)C1s(2) proenzyme complex, and efficient activation of C1 occurs upon the interaction of the globular heads of C1q with the Fc regions of IgG or IgM antibodies within immune complexes. Active C1 constitutes a calcium-dependent trimolecular complex composed of C1q, C1r, and C1s in a molar ratio of 1:2:2. The C1q subcomponent consists of nine subunits, with six forming disulfide-linked dimers of the A and B chains, and the remaining three forming disulfide-linked dimers of the C chain. Additionally, C1QA interacts via its C-terminus with CD33, activating CD33 inhibitory

	motifs.

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

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