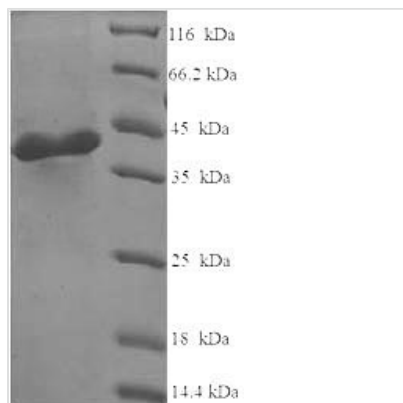




Recombinant Human Complement C1q subcomponent subunit A (C1QA)

Product Code	CSB-EP003637HU
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 Ca ²⁺ -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.
Abbreviation	Recombinant Human C1QA protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P02745
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	EDLCRAPDGKKGEAGRPGRGRPLKGEQGEPEGAPGIRTGIQGLKGDQGEP GPSGNPGKVGYPGPSGPLGARGIPGIKGTGSPGNIKDQPRPAFSAIRRNPP MGGNVVIFDVTITNQEEPYNHSGRFVCTVPGYYYFTFQVLSQWEICLSIVSSS RGQVRRSLGFCDTTNKGLFQVVSAGMVLQLQQGDQVWVEKDPKKGHIYQGS EADSVFSGFLIFPSA
Research Area	Immunology
Source	E.coli
Target Names	C1QA
Expression Region	23-245aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	39.7kDa
Protein Length	Full Length of Mature Protein
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

The gene encoding the Human C1QA protein (23-245aa) is incorporated into a plasmid vector to generate recombinant plasmid, which is then introduced into e.coli cells. The e.coli cells containing the recombinant plasmid are selected and cultured under conditions that stimulate the expression of the gene of interest. A N-terminal 6xHis-SUMO tag is attached to the protein. After expression, affinity purification is employed to isolate and purify the recombinant Human C1QA protein from the cell lysate. Denaturing SDS-PAGE is utilized to resolve the resulting recombinant Human C1QA protein, revealing a purity level exceeding 90%.

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°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.