

## C1QA Protein, Mouse, Recombinant (His)

### General Information

Synonyms:	C1qa; Complement C1q subcomponent subunit A
Protein Construction:	23-245 aa
Species:	Mouse
Expression Host:	P. pastoris (Yeast)
Accession:	P98086
Molecular Weight:	25.6 kDa (predicted)
AA Sequence:	EDVCRAPNGKDGAPGNPGRPGRPGLKGERGEPGAAGIRTGIRGFKGDPGESGPPGKPGNVGLPGPSGPLGD SGPQGLKGVKGNPGNIRDQPRPAFSAIRQNPMTLGNVVIFDKVLTNQESPYQNHTGRFICAVPGFYFNFQVI SKWDLCLFIKSSSGGQPRDSLFSNTNNKGLFQVLGGTTLQLRRGDEVWIEKDKPAKGRIYQGTEADSIFSGF LIFPSA

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

### Preparation and Storage

#### Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

*Actual storage temperature shall be subject to the COA.*

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

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<sup>2+</sup>-dependent C1r(2)C1s(2) 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.

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