

## CAPZA2 Protein, Human, Recombinant (His & SUMO)

### General Information

Synonyms: CAPZA2;F-actin-capping protein subunit alpha-2;CapZ alpha-2

Protein Construction: 2-286 aa

Species: Human

Expression Host: E. coli

Accession: P47755

Molecular Weight: 48.8 kDa (predicted)

AA Sequence: ADLEEQLSDEEKVRIAAKFIHAPPGEFNEVFNDVRLLLNNDNLLREGAAHAFQAQYNLDQFTPVKIEGYEDQV  
LITEHGDLGNGKFLDPKNRICKFDHLRKEATDPRPCEVENAVESWRVTSVETALRAYVKEHYPNGVCTVYGKKI  
DGQQTIIACIESHQFQAKNFWNGRWRSEWKFTITPSTTQVVGILKIQVHYEDGNVQLVSHKDIQDSLTVSNE  
VQTAKEFIKIVEAAENEYQTAISENYQTMSTTFFKALRRQLPVTRTKIDWNKILSYKIGKEMQNA

### 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

F-actin-capping proteins bind in a Ca(2+)-independent manner to the fast growing ends of actin filaments (barbed end) thereby blocking the exchange of subunits at these ends. Unlike other capping proteins (such as gelsolin and severin), these proteins do not sever actin filaments.

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