

## Collectrin Protein, Mouse, Recombinant (His & Myc & SUMO)

### General Information

Synonyms:	Collectrin;Nx17;Transmembrane protein 27;Tmem27;Cltrn
Protein Construction:	15-141 aa
Species:	Mouse
Expression Host:	E. coli
Accession:	Q9ESG4
Molecular Weight:	34.5 kDa (predicted)
AA Sequence:	ELCHPDAENAFKVRLSIRAALGDKAYVWDTDQEYLFRAMVAFSMRKVPNREATEISHVLLCNITQRVSFWFV VTDPSNNYTLPAAEVQSAIRKNRNRINSAFFLDDHTLEFLKIPSTLAPPMEPSVP

### 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

Plays an important role in amino acid transport by acting as binding partner of amino acid transporters SLC6A18 and SLC6A19, regulating their trafficking on the cell surface and their activity. May also play a role in trafficking of amino acid transporters SLC3A1 and SLC7A9 to the renal cortical cell membrane. Regulator of SNARE complex function. Stimulator of beta cell replication.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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