

## SLC31A1 Protein, Human, Recombinant (His & SUMO)

### General Information

Synonyms:	Solute carrier family 31 member 1;COPT1;SLC31A1;Copper transporter 1 (hCTR1);High affinity copper uptake protein 1;CTR1
Protein Construction:	1-190 aa
Species:	Human
Expression Host:	E. coli
Accession:	O15431
Molecular Weight:	37.1 kDa (predicted)
AA Sequence:	MDHSHHMGMSYMDSNSTMQPSHHPTTSASHSHGGGDSSMMMMPMTFYFGFKNVELLFSGLVINTAGE MAGAFVAVFLLAMFYEGLKIARESLLRKSQVSIRYNSMPVPGPNGTILMETHKTVGQQMLSFPHLLQTVLHIIQ VVISYFLMLIFMTYNGYLCIAVAAGAGTGYFLFSWKKAVVVDITEHCH

### QC Testing

Biological Activity:	Measured by its binding ability in a functional ELISA. Immobilized SLC31A1 at 5 µg/mL can bind human LGALS8, the EC50 of human LGALS8 is 373.90-524.30 µg/mL.
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

High-affinity, saturable copper transporter involved in dietary copper uptake.

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

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