

## SUCLG2 Protein, Human, Recombinant (His &amp; SUMO)

## General Information

Synonyms:	GTP-specific succinyl-CoA synthetase subunit beta (G-SCS;GTPSCS);mitochondrial;Succinate--CoA ligase [GDP-forming] subunit beta, mitochondrial;SUCLG2;Succinyl-CoA synthetase beta-G chain (SCS-betaG)
Protein Construction:	49-423 aa
Species:	Human
Expression Host:	E. coli
Accession:	Q96I99
Molecular Weight:	56.3 kDa (predicted)
AA Sequence:	MSDNGVRVQRFFVADTANEALEAAKRLNAKEIVLKAQILAGGRGKGVFNSGLKGGVHLTKDPNVVGGQLAKQ MIGYNLATKQTPKEGVKVNKVMVAEALDISRETYLAILMDRSCNGPVLVGGSPQGGVDIEEVAASNPELIFKEQI DIFEGIKDSQAQRMAENLGFVGPLKSQAADQITKLYNLFKIDATQVEVNPFGETPEGQVVCDAKINFDDNA EFRQKDIFAMDDKSENEPIENEAAKYDLKYIGLDGNIACFVNGAGLAMATCDIIFLNGGKPANFLDLGGGVKE AQVYQAFKLLTADPKVEAILVNIFFGGIVNCAIIANGITKACRELELKVPLVVRLEGTVQEAQKILNNSGLPITSAI DLEDAAK

## 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 &amp; 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

## A DRUG SCREENING EXPERT

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GTP-specific succinyl-CoA synthetase functions in the citric acid cycle (TCA), coupling the hydrolysis of succinyl-CoA to the synthesis of GTP and thus represents the only step of substrate-level phosphorylation in the TCA. The beta subunit provides nucleotide specificity of the enzyme and binds the substrate succinate, while the binding sites for coenzyme A and phosphate are found in the alpha subunit.

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