

Recombinant Mouse Bcs1l Protein, Myc/DDK-tagged

Cat. No. Bcs1l-1853M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length BCS1-like (yeast) (Bcs1l), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	The protein encoded by this gene is a chaperone protein that is involved in the assembly of complex III (CIII), one of the five protein complexes of the mitochondrial respiratory chain, and is necessary for the insertion of the Rieske iron-sulfur (RISP) and Qcr10p proteins into the precomplex. Studies from the yeast ortholog of this protein indicate that it is targeted to the inner membrane of the mitochondria, despite the absence of an N-terminal targeting sequence. Positively charged amino acids located C-terminal to the transmembrane domain are thought to act as an internal targeting signal. Mutations in the human ortholog of this gene have been associated with GRACILE syndrome, characterized by Growth retardation, Amino aciduria, Cholestasis, Iron overload, Lactic acidosis, and Early death. Mouse models with the corresponding mutation mimic the phenotype of GRACILE syndrome and display decreased complex III activity and decreased electron transport capacity. Alternative splicing results in multiple transcript variants.
Molecular Mass	47.4 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Bcs1l BCS1-like (yeast) [Mus musculus (house mouse)]
Official Symbol	Bcs1l
Synonyms	BCS1L; BCS1-like (yeast); mitochondrial chaperone BCS1; BCS1-like protein; 9130022O19Rik
Gene ID	66821
mRNA Refseq	NM_025784
Protein Refseq	NP_080060
UniProt ID	Q9CZP5

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