

Recombinant Mouse ACO2 Protein, GST & His-tagged

Cat. No. ACO2-950M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse ACO2 (Q99KI0) (Gln 28-Gln 780) was fused with the N-terminal polyhistidine-tagged GST tag at the N-terminus.
Species	Mouse
Source	Insect Cells
ProteinLength	28-780 a.a.
Predicted N Terminal	Met
Form	Lyophilized from sterile 50mM Tris, 100mM NaCl, 10% gly, 0.5mM GSH, pH 8.01, 5%~8% trehalose and mannitol.
Molecular Mass	The secreted recombinant mouse ACO2/GST chimera consists of 990 amino acids and has a calculated molecular mass of 110 kDa. The recombinant protein migrates as an approximately 100 kDa band in SDS-PAGE under reducing conditions.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Purity	>90 % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70°C.
Storage	Store it under sterile conditions at -20°C~-70°C. It is recommended that the protein be

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aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name [Aco2 aconitase 2, mitochondrial \[Mus musculus \]](#)

Official Symbol [ACO2](#)

Synonyms ACO2; aconitase 2, mitochondrial; aconitate hydratase, mitochondrial; citrate hydro-lyase; Aco3; Aco-2; D10Wsu183e;

Gene ID [11429](#)

mRNA Refseq [NM_080633](#)

Protein Refseq [NP_542364](#)

MIM

UniProt ID

Pathway

Citrate cycle (TCA cycle), organism-specific biosystem; Citrate cycle (TCA cycle), conserved biosystem; Citrate cycle, first carbon oxidation, oxaloacetate =>2-oxoglutarate, organism-specific biosystem; Citrate cycle, first carbon oxidation, oxaloacetate

Function

3 iron, 4 sulfur cluster binding; 4 iron, 4 sulfur cluster binding; aconitate hydratase activity; aconitate hydratase activity; citrate hydro-lyase (cis-aconitate-forming) activity; iron ion binding; iron-sulfur cluster binding; isocitrate hydro-lyase (ci

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