

Recombinant Rat mt-Co2 Protein, His-tagged

Cat. No. mt-Co2-1141R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat mt-Co2 Protein (Ile83-Ile227) with His tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	Ile83-Ile227
Description	Predicted to enable copper ion binding activity. Predicted to contribute to cytochrome-c oxidase activity. Involved in several processes, including lactation; positive regulation of cellular biosynthetic process; and positive regulation of necrotic cell death. Predicted to be located in mitochondrial inner membrane. Predicted to be part of respiratory chain complex IV. Biomarker of colorectal carcinoma and type 2 diabetes mellitus. Orthologous to several human genes including MTCO2P12 (MT-CO2 pseudogene 12).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 20.4 kDa; Accurate Molecular Mass: 22 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by

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accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

Storage

Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.

Storage Buffer

20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.

Reconstitution

Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name

mt-Co2 cytochrome c oxidase II, mitochondrial [*Rattus norvegicus* (Norway rat)]

Official Symbol

mt-Co2

Synonyms

mt-Co2; cytochrome c oxidase II, mitochondrial; COII; COX2; cytochrome c oxidase subunit 2; cytochrome c oxidase subunit II

Gene ID

26198

Protein Refseq

YP_665632

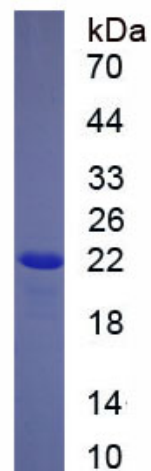
UniProt ID

P00406

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