

Cytochrome c, Testis-specific

Mouse, T-Cc

Expressed in *E.Coli*

Cat. No. CBCRY29

Lot. No. (See product label)

BACKGROUND

Cytochrome c, or cyt c is a small heme protein found loosely associated with the inner membrane of the mitochondrion. It belongs to the cytochrome c family of proteins. Cytochrome c is a highly soluble protein, unlike other cytochromes, with a solubility of about 100g/L and is an essential component of the electron transport chain, where it carries one electron. It is capable of undergoing oxidation and reduction, but does not bind oxygen.

MOLECULAR DESCRIPTION

Protein classification: Electron Transport

Structure Weight: 12541.14 Da

Polymer: 1

Molecule: Cytochrome c, testis-specific

Chains: A

Type: polypeptide (L)

Chain Length: 105 amino acids

CRYSTAL INFORMATION

PDB ID: [2AIU](#)

MMDB ID: [40235](#)

Source: Homo sapiens

Method: X-Ray Diffraction

Resolution: 1.6 Å

Ligand Chemical Component: HEM; phosphate ion

CRYSTAL STRUCTURE



GENE INFORMATION

Gene Name: [Cyct](#)

Synonyms: RP23-211L7.1; T-Cc; OTTMUSP00000014130

GeneID: [13067](#)

Chromosome Location: 2 47.0 cM

Function: iron ion binding; electron carrier activity; heme binding; metal ion binding

PRIMARY CITATION

Liu, Z., Lin, H., Ye, S., Liu, Q.Y., Meng, Z., Zhang, C.M., Xia, Y., Margoliash, E., Rao, Z., Liu, X.J. (2006) Remarkably high activities of testicular cytochrome c in destroying reactive oxygen species and in triggering apoptosis Proc.Natl.Acad.Sci.Usa 103: 8965-8970

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