

Cytochrome c, Testis-specific

Cat. No. CBCRY29 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Source	E.coli
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.
Protein Classification	Electron Transport
Structure Weight	12541.14 Da
Polymer	1
Molecule	Cytochrome c, testis-specific
Chain Length	105 amino acids
PDB ID	2AIU
MMDB ID	40235

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Method	X-Ray Diffraction
Resolution	1.6Å
Ligand Chemical Component	HEM; phosphate ion
Reference	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

GENE INFORMATION

Gene Name	Cyct
Synonyms	RP23-211L7.1; T-Cc; OTTMUSP00000014130
Gene ID	13067
Chromosome Location	2 47.0 cM
Function	iron ion binding; electron carrier activity; heme binding; metal ion binding

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