

Cytochrome c, Testis-specific

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

SPECIFICATION


Source	E.coli
Background	<p>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.</p> <p>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.</p>
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
Method	X-Ray Diffraction

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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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