



# PIR Entry CCHO

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```

ENTRY          CCHO #type complete iProClass View of CCHO
TITLE          cytochrome c [validated] - horse
ORGANISM       #formal_name Equus caballus #common_name domestic horse
               #cross-references taxon:9796
DATE           13-Jul-1981 #sequence_revision 13-Jul-1981 #text_change
               28-Jul-2000
ACCESSIONS    A00005; S59487
REFERENCE      A93145
               #authors Margoliash, E.; Smith, E.L.; Kreil, G.; Tuppy, H.
               #journal Nature (1961) 192:1125-1127
               #title The complete amino-acid sequence.
               #accession A00005
               ##molecule_type protein
               ##residues 1-104 ##label MAR
REFERENCE      S59487
               #authors Theodorakis, J.L.; Armes, L.G.; Margoliash, E.
               #journal Biochim. Biophys. Acta (1995) 1252:114-125
               #title beta-Thiopropionyl cytochromes c modified at lysyl
               residues: preparation and characterization of the
               monosubstituted horse cytochromes c.
               #cross-references MUID:96001358; PMID:7548153
               #accession S59487
               ##status preliminary
               ##molecule_type protein
               ##residues
                   1-10;11-18;19-26;27-34;38-47;50-54;55-58;60-67;68-74;
                   75-82;83-97;98-104 ##label THE
REFERENCE      A52805
               #authors Luo, Y.; Brayer, G.D.
               #submission submitted to the Brookhaven Protein Data Bank, August 1994
               #cross-references PDB:1HRC
               #contents annotation; X-ray crystallography, 1.9 angstroms, residues
                   1-104
REFERENCE      A92076
               #authors Dickerson, R.E.; Takano, T.; Eisenberg, D.; Kallai, O.B.;
                   Samson, L.; Cooper, A.; Margoliash, E.
               #journal J. Biol. Chem. (1971) 246:1511-1533
               #title Ferricytochrome c. I. General features of the horse and
                   bonito proteins at 2.8 A resolution.
               #cross-references MUID:71116428; PMID:5545094
  
```

```

#contents      annotation; X-ray crystallography, 2.8 angstroms
CLASSIFICATION SF000001
#superfamily  cytochrome c; cytochrome c homology
KEYWORDS       acetylated amino end; chromoprotein; electron transfer;
               heme; iron; metalloprotein; mitochondrion; oxidative
               phosphorylation; respiratory chain

FEATURE
  4-98         #domain cytochrome c homology #label CYC\
  1            #modified site acetylated amino end \(Gly\) #status
               experimental\
  14,17        #binding site heme \(Cys\) \(covalent\) #status
               experimental\
  18,80        #binding site heme iron \(His, Met\) \(axial
               ligands\) #status experimental

SUMMARY        #length 104 #molecular_weight 11702

SEQUENCE
      5          10          15          20          25          30
1  G D V E K G K K I F V Q K C A Q C H T V E K G G K H K T G P
31 N L H G L F G R K T G Q A P G F T Y T D A N K N K G I T W K
61 E E T L M E Y L E N P K K Y I P G T K M I F A G I K K K T E
91 R E D L I A Y L K K A T N E

```

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in the PIR1 section of the Protein Sequence Database, release 78.03, 24-Nov-2003,  
 assembled and annotated by the PIR-International.  
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**PDB** structures most related to CCHO:

[1GIW](#) (1-104) 100.0%; [1HRC](#) (1-104) 100.0%; [1AKK](#) (1-104) 100.0%  
[1OCD](#) (1-104) 100.0%; [1CRCB](#) (1-104) 100.0%; [1WEJF](#) (1-104) 100.0%  
[1CRCA](#) (1-104) 100.0%; [2FRC](#) (1-104) 100.0%; [2PCBB](#) (1-104) 100.0%  
[2GIW](#) (1-104) 100.0%

SCOP: [1GIW](#) ; [1HRC](#) ; [1AKK](#) ; [1OCD](#) ; [1CRC](#) ; [1WEJ](#) ; [2FRC](#) ; [2PCB](#) ; [2GIW](#)  
 CATH: [1GIW](#) ; [1HRC](#) ; [1AKK](#) ; [1OCD](#) ; [1CRC](#) ; [1WEJ](#) ; [2FRC](#) ; [2PCB](#) ; [2GIW](#)  
 FSSP: [1GIW](#) ; [1HRC](#) ; [1AKK](#) ; [1OCD](#) ; [1CRC](#) ; [1WEJ](#) ; [2FRC](#) ; [2PCB](#) ; [2GIW](#)  
 MMDB: [1GIW](#) ; [1HRC](#) ; [1AKK](#) ; [1OCD](#) ; [1CRC](#) ; [1WEJ](#) ; [2FRC](#) ; [2PCB](#) ; [2GIW](#)

**ALIGNMENTS** containing CCHO:

[FA2814](#) cytochrome c - 1.0 1.0  
[M00001](#) cytochrome c - 1.0 8.0

Associated Alignments:

[DA1115](#) cytochrome c homology  
[SA2325](#) cytochrome c superfamily 1.0

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