

Mutagenesis, biochemical and x-ray crystallographic studies of the nitrite reductase from alcaligenes xylosoxidans

De Montfort University - X



Description: -

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Notes: Thesis (Ph.D.) - De Montfort University, Leicester 2002.

This edition was published in 2002



Filesize: 57.61 MB

Tags: #Solvent

Copper

Note that the amount of pseudoazurin present 100 μM was only 4 times that of variant 8 25 μM but ~ 30 times that of wt NiR 3 μM . X-ray structure and site directed mutagenesis of a nitrite reductase from alcaligenes faecalis-S6 - roles of 2 copper atoms in nitrite reduction. Molecular characterization of the Alcaligenes eutrophusnickel permease J Inorg Biochem.

Atomic Resolution Structures of Resting

Briefly, 375 μl protein samples containing approximately 25 μM Cu were denatured with 250 μl 1. Pinter, Aniruddha Deb, James E.

Evolution of copper

We have also investigated the effects of solvent viscosity on observed rates of PCET reactions catalysed by AxNiR.

Solvent

In Biophysics and Synchrotron Radiation Hasnain, S.

Evolution of copper

Several structural perturbations occur at the active site as a result of the ligand loop truncation in variant 2b.

Atomic Resolution Structures of Resting

The primary methods used in this thesis work were EPR spectroscopy, x-ray crystallography, and enzyme kinetics. A topological model for the high-affinity nickel transporter of *Alcaligenes eutrophus*. Scans thereafter showed a uniform decrease in absorbance, compared to the red scan not shown.

Copper

The structural basis for the control of specificity between partner proteins is lacking because these weak transient complexes have remained largely intractable for crystallographic studies. In mercury-substituted MCO, Solomon et al observed a two-electron reduced intermediate, which they predicted to be a peroxide-level intermediate bridged between the reduced type-2 Cu and an oxidized type-3 Cu.

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