

Table 3. Distances and NOEs from the Cys-89 β -protons to other protons in the vicinity

Nucleus	Cys-89 H ^{β} ₁ , Å*	Cys-89 H ^{β} ₂ , Å†
His-39 H ^{α}	4.5 (Medium)	5.4 (None)
Asn-40 H ^N	3.8 (Medium)	4.6 (None)
Cys-89 H ^N	3.4 (Medium)	2.4 (Very strong)
Cys-89 H ^{α}	2.8 (Strong)	2.9 (Medium)
Glu-90 H ^N	3.3 (Medium)	4.3 (None)
Met-97 H ^{γ} ₁	4.8 (Weak)	4.1 (Medium)

The distances are obtained from the NMR solution structure of reduced *A.v.* plastocyanin [PDB ID 1FA4 (1)]. The relative strength of the observed NOEs are given in brackets.

* The chemical shift of Cys-89 H ^{β} ₁ is 3.33 ppm in the reduced form and \approx 700 ppm in the oxidized form.

† The chemical shift of Cys-89 H ^{β} ₂ is 2.89 ppm in the reduced form and \approx 440 ppm in the oxidized form.

1. Ma, L., Jørgensen, A.-M. M., Sørensen, G. O., Ulstrup, J. & Led, J. J. (2000) *J. Am. Chem. Soc.* **122**, 9473–9485.