

Pseudomonas aeruginosa is an opportunistic human pathogen which infects injured, immunodeficient, or otherwise compromised patients. Under iron-limited conditions, the bacterium secretes different siderophores such as the pyochelin (MM < 2000 Da). The pyochelin is transported across the outer membrane by the pyochelin receptor FptA (MM: 75000 Da). To date, the biochemistry of FptA is not very known contrary to the one of FpvA which is another siderophore receptor from *P. aeruginosa* also involved in the iron transport but using the pyoverdine.

During the experiment 30-01-692, 4 datasets were collected using 4 different FptA crystals soaked in EDTA or obtained in presence of EDTA in order to chelate iron to prevent its binding onto FptA. All the electron density maps calculated from these data revealed the presence of iron bound to the outer membrane receptor.

Summary for 2 data sets

	Crystal 1	Crystal 2
Data processing/scaling	Denzo/Scalepack	Denzo/Scalepack
Wavelength (Å)	1.008018	1.008018
Resolution (Å)	2.3	2.63
Space group	P2 ₁ 2 ₁ 2 ₁	P2 ₁ 2 ₁ 2 ₁
Cell parameters (Å)	75.97 84.61 162.40	76.22 84.79 162.89
Number of reflections	224617	173742
Unique reflections	87069	58596
Completeness (%)	97.5	98.1
Rsym (%)	9.5	9.9