



	Experiment title: C-terminal Binding Protein 3/Brefeldin A-ADP ribosylated substrate (CtBP3/BARS)	Experiment number: MX394
Beamline: ID23-1	Date of experiment: from: 20/04/05 to: 21/04/05	Date of report: 26/07/05 <i>Received at ESRF:</i>
Shifts: 3	Local contact(s): Dr. Laurent TERRADOT	
Names and affiliations of applicants (* indicates experimentalists): Nardini Marco* Dept. Biomolecular Sciences and Biotechnology University of Milano Via Celoria, 26, I-20131 Milano - Italy e-mail: marco.nardini@unimi.it		

Report:

CtBP3/BARS plays key roles in development and oncogenesis as a transcription co-repressor, and in intracellular traffic as a promoter of Golgi membrane fission. Co-repressor activity is regulated by NAD(H) binding to CtBP3/BARS, while membrane fission is associated to its acyl-CoA-dependent acyl-transferase activity.

Here, we report the data collection on the crystals of a truncated form of rat CtBP3/BARS (t-CtBP3/BARS: devoid of 80 C-terminal residues) in a ternary complex with NADH and with a peptide (12 residues) mimicking a novel consensus motif recently recognized in some CtBP cellular partners.

Two data sets have been collected, after a 12h and after 30min peptide soaking time, respectively. The first data set (3.5 Å resolution) was not useful due to twinning and scaling problems. The second data set (2.5 Å resolution) was used to calculate a Fourier difference map. The peptide resulted not bound to the protein. Further experiments (soaking and co-crystallization) will be done in the near future.