



	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
Shifts: 3	Local contact(s): Dr. Laurent TERRADOT	<i>Received at ESRF:</i>
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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 binary complex with acetyl-CoA. The rationale of this experiment is to verify the common binding site shared by the two cofactors of the protein: NADH for the transcription co-repressor activity and acyl-CoA for the acyl-transferase activity.

The crystals diffracted up to 3.6 Å resolution. After analysis, the crystals resulted twinned and not useful. The experiment will be repeated as soon as possible.