



	<b>Experiment title:</b> C-terminal Binding Protein 3/Brefeldin A-ADP ribosylated substrate (CtBP3/BARS)	<b>Experiment number:</b> MX394
<b>Beamline:</b> ID14-2	<b>Date of experiment:</b> from: 21/07/05 to: 22/07/05	<b>Date of report:</b> 26/07/05
<b>Shifts:</b> 3	<b>Local contact(s):</b> Mme Rana ROY	<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 3.0 Å resolution. Collected data are currently under analysis.