

Rapport d'expérience du 13 au 14 mars 2004

Run : 30-01-683

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BM30A- 1 shift. Utilisateurs : Jacques Covès, Eva Pebay-Peyroula, Laurence Serre,

Deux protéines Membranaires :

Protéine MelB : les cristaux ne diffractent pas

Protéine BLT1 : cristaux de sel

Protéine MerAa, tests de cristaux et enregistrements de deux jeux de données à 3.2 Å de résolution à une longueur d'ondes.

Les cristaux sont très petits (max 50 microns) et diffractent jusque vers 3 Å. Les données peuvent être intégrées jusque 3.2 Å avec un R_{sym} de 11%. D'après la symétrie et les extinctions, le groupe d'espace est $P4_12_12$ ou $P4_32_12$. Le remplacement moléculaire est en cours.

BM30A- 2 shift : Users: Isabel Garcia-Saez & Frank Kozielski

Motor domain BimC : Two crystals obtained with the motor domain BimC were tested. The crystals appeared to be salt.

Human motor domain Eg5 Three different crystals from drops performed with the human motor domain Eg5 in presence of inhibitors were tested and were also salt crystals.

Human CENP-E Nine crystals of human CENP-E obtained under nine different crystallization conditions were tested. Only one of this conditions appeared to be salt crystal, the rest being protein.

Two crystals of CENP-E soaked during 24h with one inhibitor were tested. One data collection was performed (180 images, max. resolution 2.8Å). The crystal is monoclinic $P21$. The structure has been solved by molecular replacement using the native monomer of CENP-E as a model but the inhibitor is not present.

Our aim in the near future is to find different crystals forms, based on the nine different conditions tested before, which will be more suitable for soaking inhibitors.

To perform our diffraction experiments we used a monochromatic wavelength at 0.971662Å.

All crystals used were flash-frozen directly in the beam-line.