Please fill out all relevant boxes, then save as pdf and send to:

strubitem-contact@uni-koeln.de

*Please use the ProjectID as subject line*

**ProjectID** (short ID like TMV)

**Project supervisor** **Project contact**

Name:

Email:

Phone:

Association:

Name:

Email:

Phone:

Association:

Project level self-assessment:

|  |
| --- |
| [ ]  new project  |
| [ ]  continuation of running project |
| [ ]  resubmission of rejected project  |
|  |
| [ ]  Level 1: No/limited biochemical characterization and no preliminary EM data  |
| [ ]  Level 2: Solid biochemical characterization, possibly preliminary EM data  |
| [ ]  Level 3: Cryo-EM data are present and pre-screened sample grids are available  |

Short description of the scientific background of the project. What is the relevance of the project to the scientific field and/or the larger public? What are the main research questions? Do you have specific EM imaging needs for your project?

Scientific Project Background

Potential Scientific Outcome

What is the question/hypothesis to be addressed using cryo-EM. How would answering this specific questions advance the field?

**(Biochemical) Characterization of the Sample**

Estimated size: kDa nm (diameter)

Estimated concentration in mg/ml:

Estimated purity: [ ]  95-100% [ ]  85-95% [ ]  less

[ ]  SDS-Page analysis performed [ ]  Size-exclusion chromatography analysis done

Click here to insert image of an annotated gel:



Click here to insert image of SEC trace, mark used fraction:



[ ]  Was purified using the following method(s): please state method

Click here to insert image of other purification method



Please list the composition of the current sample buffer. Please furthermore disclose any information on tolerance for pH, salt, and additives.

**Information on sample buffer**

**EM Characterization of the sample**

[ ]  Pre-screened grids are available. Amount:

[ ]  Preliminary EM characterization is available

Click here to insert a representative EM image



[ ]  A 2D analysis of the sample is available

Click here to insert an image of 2D classes



[ ]  A 3D analysis of the sample is available

Click here to insert image of 3D map



Click here to insert image of FSC curve



Click here to insert plot showing Euler angle distribution



Description of available EM data and the processing so far:

Please briefly described the EM data aquisition and processing so far. Please make sure to mention data sampling rate, number of micrographs, and particles per field of view at the chosen magnification.

Please describe the outcome of the last proposal

Please describe the outcome of the last proposal. If data had been aquired please briefly state the processing strategy used.

Please briefly describe why further data is needed. Please also state if special imaging conditions are required (e.g. phase-plate or tilted data aquisition)

Please state why further data is needed