

CubeCrystal Plates

Product	Catalog No.	Package size
CubeCrystal 2-well MO Plates (2)	10101	2 x 1 plate
CubeCrystal 2-well MO Plates (10)	10103	10 x 1 plate
CubeCrystal 2-well MO Plates (50)	10105	50 x 1 plate

Product Description

Lipidic cubic phase crystallization is the most popular method for membrane protein structure determination. Experiments are typically done in batch format. However, we know from the crystallization of soluble proteins that vapor diffusion can be a lot more powerful. The Controlled in meso phase (CIMP) method (1) combines the benefits of LCP and vapor diffusion to push membrane protein crystallization to new limits. Cube Biotech offers ready-to use plates for an easy start with this method.

Setup of crystallization reactions with CubeCrystal Plates

CubeCrystal Plates come ready to use. They are based on the MRC 2-well Crystallization Plate made of UV transparent, advanced polymer.

The two protein wells are coated with dry mono-olein lipid. The purified protein can be dispensed directly into the protein wells as in standard protocols for vapor diffusion. Please refer to the detailed instruction available for free download at www.cube-biotech.com/protocols.

Technical details

Protein drop volume: 100 nl protein solution + 100 nl reservoir solution
Reservoir volume: 50 µl reservoir solution
Coated lipid: 29 µg Mono-olein (1-(cis-9-Octadecenoyl)-rac-glycerol)

Shipping & Storage

Shipment Temperature	2-8°C or dry ice
Storage	-20°C for several months

Additional Information

For protein affinity purification, Cube Biotech offers dedicated agarose resins, magnetic beads and prepacked cartridges. Also available are a range of ultrapure detergents and buffers for extraction and purification of proteins. See www.cube-biotech.com/products for details.

Literature references

1. Kubicek J., Schlesinger, R., Baeken C., Büldt, G., Schäfer, F., Labahn, J. (2012) Controlled in meso phase crystallization - a method for the structural investigation of membrane proteins. PLoS One 7(4):e35458.

Disclaimer: CubeCrystal Plates are based on the patent-pending Controlled-in-meso-phase (CIMP) technology. Our products are intended for molecular biology applications. These products are not intended for the diagnosis, prevention, or treatment of a disease.

Proteins are our passion.