

Reconstitution of copolymer solution

Cube DIBMA copolymers are delivered lyophilized from a solution containing 50 mM TRIS, pH 7.5. Each aliquot contains 50 mg protein. Adding 0.5 mL double distilled water will restore the original solution with a copolymer concentration of 10%. This stock can be diluted further as required by the different application protocols.

Technical details

Name: Diisobutylene Maleic Acid copolymer, sodium salt / DIBMA / in 50 mM TRIS, pH 7.5

Adsorbance (280 nm, 1% solution): > 0.3

MW: 10,000 g/mol

Solubility: >10% (H₂O)

Specific gravity: 1.1

pH (dissolved): 7.5 ± 0.1

Shipping & Storage

Shipment Temperature	Ambient temperature
Storage of lyophilized copolymer	-20°C for several years
Storage of dissolved copolymer	2-8°C for several days

Additional Information

For DIBMA protocols, please visit our webpage at: www.cube-biotech.com/protocols. For background information on nanodiscs and possible applications please see <http://www.cube-biotech.com/background-tips-and-tricks/what-are-nanodiscs>.

Cube Biotech also offers his-tagged and untagged MSP1D1, MSP1E3D1, MSP1D1ΔH5 and MSP2N2 his-tagged proteins,

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. A.O. Oluwole, B. Danielczak, A. Meister, J.O. Babalola, C. Vargas, S. Keller, Solubilization of membrane proteins into functional lipid-bilayer nanodiscs using a diisobutylene/maleic acid copolymer, *Angew. Chem. Int. Ed.* 56 (2017) 1919–1924.
2. A.O. Oluwole, J. Klingler, B. Danielczak, J.O. Babalola, C. Vargas, G. Pabst, S. Keller, Formation of lipid-bilayer nanodiscs by diisobutylene/maleic acid (DIBMA) Copolymer, *Langmuir* 33 (2017) 14378–14388

Disclaimer: 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.

