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HighSpec Rho1D4 Agarose

Product	Catalog No.	Package size
PureCube Rho1D4 Agarose (1 mL)	33101	2 mL 50% suspension
PureCube Rho1D4 Agarose (5 mL)	33102	10 mL 50% suspension
PureCube Rho1D4 Agarose (10 mL)	33103	20 mL 50% suspension
HighSpec Rho1D4 Agarose (25 mL)	33104	50 mL 50% suspension
Rho Starter Set 1: PureCube Rho1D4 Agarose + Rho1D4 peptide	33199	1 mL Rho1D4 agarose (2 mL 50% suspension) + 1 x 5 mg Rho1D4 peptide

Product Description

HighSpec Rho1D4 Agarose was developed for the affinity purification of proteins with a rho1D4-tag (protein sequence TETSQVAPA). This affinity chromatography matrix is based on 6% cross-linked agarose. The material is highly porous to allow for optimal protein interaction, with a size exclusion limit for globular proteins of 4 x 106 Da. The HighSpec Rho1D4 Agarose has excellent properties in batch and column purification, including purification processes under low pressure (FPLC®). At 15 cm bed height, maximum flow rate is ≥1000 cm/h, and maximum pressure ≥300 kPa. HighSpec Rho1D4 agarose beads have a particle diameter of 50 - 150 µm.

The Rho1D4 antibody is coupled to the agarose resin to obtain an affinity matrix with highest binding capacity for rho-tagged proteins, as well as enhanced storage stability. HighSpec Rho1D4 Agarose can be used for batch purification, low pressure column purification, and is compatible with all prokaryotic and eukaryotic expression systems.

HighSpec Rho1D4 Agarose is delivered as a 50% suspension. Therefore, 2 mL suspension will yield a 1 mL bed volume. The suspension contains 20% ethanol to prevent microbial growth.

Protein Binding Capacity

The protein binding capacity is up to 3 mg/mL resin, as determined by purification of a 150 kDa rho1D4-tagged membrane protein, and quantified via spectrophotometry.

Compatibility

Rho1D4 Agarose is compatible with low concentrations of most commonly used detergents. For cleaning, please refer to the protocol "Regenerating Rho1D4 Agarose". This protocol uses high and low pH buffers.

Shipping & Storage

Shipment Temperature	Ambient temperature
Short-term Storage	In neutral buffer at 4 °C
Long-term Storage	In neutral buffer with 20% ethanol at 4 °C

Additional Information

For protein purification protocols, please visit our webpage at: www.cube-biotech.com/protocols. For purification of rho-tagged proteins from dilute solutions, we recommend using PureCube Rho1D4 MagBeads. For affinity purification of GST-tagged, his-tagged or strep®-tagged proteins, 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 membrane proteins. See www.cube-biotech.com/products for details.