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PureCube IDA MagBeads XL

| Product | Catalog No. | Package size |
|--------------------------------------|-------------|--------------|
| PureCube IDA MagBeads XL (1 mL) | 55701 | 1 x 1 mL |
| PureCube IDA MagBeads XL (5 mL) | 55705 | 1 x 5 mL |
| PureCube IDA MagBeads XL (25 mL) | 55225 | 1 x 25 mL |
| PureCube IDA MagBeads XL (4 x 25 mL) | 55790 | 4 x 25 mL |

Product Description

PureCube IDA MagBeads XL were developed for the affinity purification of proteins carrying a polyhistidine tag. The affinity matrix is based on spherical magnetic agarose beads, consisting of 6% cross-linked agarose. The material is highly porous to allow optimal protein interaction. Cross-linked agarose is also physically very stable, making it suitable for purification processes without deformation or destruction. Our magnetic beads are very homogeneous in size with a medium particle diameter of 90 µm, yielding a high degree of reproducibility between individual purification runs.

An IDA ligand is coupled to the agarose to obtain a matrix with highest binding capacity for histidine residues. The metal ion capacity is > $20 \mu eqv/ml$, determined with Cu^{2+} . Other possible metal ions are Co^{2+} , Zn^{2+} , Fe^{3+} , Al^{3+} , and Ni^{2+} , resulting in different affinities, e.g. for zinc-finger proteins or phosphorylated proteins. If required, the metal ions can be removed from the magnetic beads using 5 wash steps with 100 mM EDTA, and the magnetic beads can be recharged with a different metal ion.

PureCube IDA MagBeads XL are delivered as a 25% suspension. Therefore, 1 mL suspension will yield a 250 µL bed volume. The suspension contains 20% ethanol to prevent microbial growth.

Protein Binding Capacity

The protein binding capacity is ~40 mg protein per mL of settled beads, as determined by purification of 6xHis-tagged GFP protein from *E.coli* cleared lysates, and quantified via spectrophotometry.

Compatibility

PureCube IDA MagBeads XL are very stable and can resist the following conditions in most situations: pH 2-4, 100% methanol, 100% ethanol, 8 M urea, 6 M guanidinium hydrochloride, 30% (v/v) acetonitrile.

Shipping & Storage

| Shipment Temperature | Ambient temperature |
|----------------------|--|
| Short-term Storage | In equilibration buffer (see protocol) |
| Long-term Storage | In 20% ethanol at 4 °C |

Additional Information For protein purification protocols, please visit our webpage at: www.cube-biotech.com/protocols. For purification of his-tagged proteins with gravity flow columns and low pressure chromatography, we recommend using PureCube Ni-NTA Agarose Resin. For affinity purification of GST-tagged, rho-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 proteins. See www.cube-biotech.com/products for details.

<u>Disclaimer</u>: Our products are intended for molecular biology applications. These products are not intended for the diagnosis, prevention, or treatment of a disease.

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