

PureCube Ni-IDA Agarose

Product	Catalog No.	Package size
PureCube Ni-IDA Agarose (10 mL)	30103	20 mL 50% suspension
PureCube Ni-IDA Agarose (50 mL)	30105	100 mL 50% suspension
PureCube Ni-IDA Agarose (250 mL)	30110	500 mL 50% suspension
PureCube Ni-IDA Agarose (500 mL)	30112	1000 mL 50% suspension

Product Description

PureCube Ni-IDA Agarose was developed for IMAC purification methods, e.g. the affinity purification of proteins carrying a polyhistidine tag. This affinity chromatography matrix is based on BioWorks Workbeads, consisting of 7.5% cross-linked agarose. The material is highly porous to allow for optimal protein interaction. Cross-linked agarose is also physically very stable, making it suitable for purification processes under low pressure with flow rates up to 6 mL/min (optimal 0.5 – 2 mL/min). Our agarose is very homogeneous in size with a medium particle diameter of 40 µm, yielding a high degree of reproducibility between individual purification runs.

An IDA ligand is coupled to the agarose matrix and carefully loaded with nickel ions to obtain an affinity matrix with highest binding capacity for histidine residues. The metal ion capacity is >25 µeqv Ni²⁺/mL. Other possible metal ions are Co²⁺, Zn²⁺, Fe³⁺, and Al³⁺, resulting in different affinities, e.g. for zinc-finger proteins or phosphorylated proteins. If required, the nickel ions can be removed from the agarose matrix using 5 wash steps with 100 mM EDTA, and the matrix can be recharged with a different metal ion. Alternatively, please contact us for unloaded IDA agarose matrix.

PureCube Ni-IDA Agarose is delivered as a 50% (v/v) 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 50 mg/mL, as determined by purification of 6xHis-tagged GFP protein from *E.coli* cleared lysates, and quantified via spectrophotometry.

Compatibility

PureCube IDA Agarose is very stable and can resist the following conditions in most situations: pH 2-14, 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 neutral buffer at 4°C
Long-term Storage	In neutral buffer with 20% ethanol at 4 °C

Additional Information

For protein purification protocols, including protocols for regenerating IDA Agarose resin, please visit our webpage at: www.cube-biotech.com/protocols. For IMAC purification of proteins from dilute solutions, we recommend using PureCube IDA MagBeads. 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.

Disclaimer: 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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