

## PureCube IDA Agarose XL

Product	Catalog No.	Package size
PureCube IDA Agarose XL (1 mL)	55601	1 x 1 mL
PureCube IDA Agarose XL (10 mL)	55603	1 x 10 mL
PureCube IDA Agarose XL (50 mL)	55605	1 x 50 mL
PureCube IDA Agarose XL (250 mL)	55610	1 x 250 mL
PureCube IDA Agarose XL (500 mL)	55612	1 x 500 mL

### Product Description

PureCube IDA Agarose XL was developed for the affinity purification of proteins carrying a polyhistidine tag. This affinity chromatography matrix is based on custom-made agarose, consisting of 6% 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 high flow rates. Cross-linked agarose is also physically very stable, making it suitable for purification processes under low pressure with flow rates up to 20 mL/min. This special agarose contains extra large particles with a medium diameter of 400 µm.

An IDA ligand is coupled to the agarose matrix. It can be loaded with various metal ions, e.g. Ni<sup>2+</sup>, Co<sup>2+</sup>, Zn<sup>2+</sup>, Fe<sup>3+</sup>, and Al<sup>3+</sup>, resulting in different affinities, e.g. for his-tagged proteins, zinc-finger proteins or phosphorylated proteins. If required, the metal 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 IDA agarose matrices preloaded with different metals.

PureCube IDA Agarose XL 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 at least 20 mg/mL, as determined by purification of 6xHis-tagged GFP protein from *E.coli* cleared lysates by nickel-loaded resin, and quantified via spectrophotometry.

### Compatibility

PureCube IDA Agarose XL 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 equilibration buffer (see protocol)
Long-term Storage	In 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](http://www.cube-biotech.com/protocols). For purification of his-tagged proteins and proteins, binding to nickel, from dilute solutions, we recommend using PureCube Ni-NTA MagBeads. For affinity purification of GST-tagged, rho-tagged or strep<sup>®</sup>-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](http://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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**Proteins are our passion.**