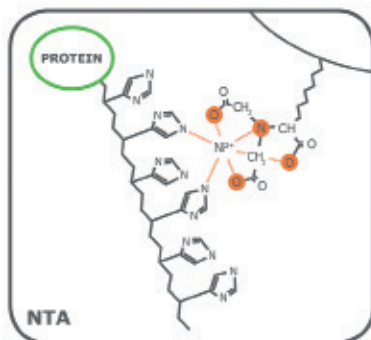


PureCube 100 Compact Cartridge Ni-NTA



Product	Catalog No.	Package size
PureCube 100 Compact Cartridge Ni-NTA (1 x 1 ml)	74302	1 x 1 ml prepacked column
PureCube 100 Compact Cartridge Ni-NTA (5 x 1 ml)	74304	5 x 1 ml prepacked column
PureCube 100 Compact Cartridge Ni-NTA (1 x 5 ml)	74306	1 x 5 ml prepacked column
PureCube 100 Compact Cartridge Ni-NTA (5 x 5 ml)	74308	5 x 5 ml prepacked column



Coupled metal ion



Product Description

The PureCube Compact Cartridge Ni-NTA is a chromatography column prepacked with PureCube Ni-NTA Agarose. The column is stored in buffer containing 20% ethanol to prevent microbial growth. The PureCube Compact Cartridge Ni-NTA is available in two sizes, 1 ml bed volume and 5 ml bed volume (dimensions given in Product Specifications). Both column sizes exhibit excellent chemical resistance to most commonly used reagents and the End Plugs include standard connections compatible with common chromatography instruments (such as ÄKTA). The 5 ml column has two layers of mesh (coarse and fine) at one end to give excellent flow distribution. The void volume in each End Plug is minimal, because the fluid is introduced through a narrow flow path (i.e. 1 mm hole).

Protein Binding Capacity

The protein binding capacity is up to 80 mg/ml, as determined by purification of 6xHis-tagged GFP protein from E.coli cleared lysates, and quantified via spectrophotometry.

Compatibility

PureCube Ni-NTA 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.

Technical Details -Cartridges	PureCube Compact Cartridge Ni-NTA, 1 ml	PureCube Compact Cartridge Ni-NTA, 5 ml
Functional Group	Ni-NTA	Ni-NTA
Dimensions [mm]	8.0 x 35	17 x 25
Column Body Material	Polypropylene	Polypropylene
End Plug Material	Polypropylene	Polypropylene
Inlet/Outlet	10-32 UNF female thread	10-32 UNF female thread
Matrix	7.5% highly cross-linked agarose	7.5% highly cross-linked agarose
Particle Diameter	40 µm	40 µm
Protein Binding Capacity	80 mg / ml	400 mg / ml
Max. Flow Rate	6 ml / min	6 ml / min
Recommended Flow Rate**	0.5-2.0 ml / min	0.5-2.0 ml / min
Recommended Operational Pressure	Up to 5 bar (72 psi)	Up to 3 bar (42 psi)
pH Stability	2-14	2-14

Technical Details -Ni-NTA resin	
Bead Ligand	Ni-NTA (nitrilotriacetic acid+ nickel ion)
Bead Size	100 µm
Binding capacity	80 mg protein / ml pure resin (Tested with eGFP)
Chelator stability	Stable in buffer containing 10 mM DTT and 1 mM EDTA

Shipping & Storage	
Shipping 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 the protocols and other related information about this product visit our homepage at: <https://cube-biotech.com/>, and enter the catalogue number in the search bar above.

For purification of His-tagged proteins from dilute solutions, we recommend using PureCube Ni-NTA MagBeads. For affinity purification of GST-tagged, Rho1d4-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 <https://cube-biotech.com/products/protein-purification-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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