

## PureCube HiCap StrepTactin<sup>®</sup> Agarose

Product	Catalog No.	Package size
PureCube HiCap StrepTactin Agarose (1 mL)	34101	1 x 1 mL
PureCube HiCap StrepTactin Agarose (10 mL)	34103	1 x 10 mL
PureCube HiCap StrepTactin Agarose (50 mL)	34105	1 x 50 mL
PureCube HiCap StrepTactin Agarose (250 mL)	34110	1 x 250 mL

### Product Description

PureCube StrepTactin<sup>®</sup> HiCap Agarose Resin was developed for the affinity purification of strep<sup>®</sup>-tagged proteins. This affinity chromatography matrix is based on Superflow<sup>™</sup> resin, 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 flow rates up to 6 mL/min (optimal 1-3 mL/min). Our agarose resin is very homogeneous in size with a medium particle diameter of 100 µm, yielding a high degree of reproducibility between individual purification runs.

StrepTactin has been coupled to the agarose resin to obtain a matrix with highest binding capacity for strep-tagged proteins and biotinylated biomolecules. PureCube HiCap StrepTactin Agarose can be used for batch purification, as well for low pressure column purification, and is compatible for all prokaryotic and eukaryotic expression systems. Because the purification method depends on correctly folded StrepTactin protein, only native conditions can be used.

PureCube HiCap StrepTactin Agarose is delivered as a 50% suspension. Therefore, 2 mL suspension will yield a 1 mL bed volume. The suspension contains sodium azide to prevent microbial growth.

### Protein Binding Capacity

The protein binding capacity is up to 5 mg/mL resin, as determined by purification of a 30 kDa fusion protein from *E. coli* cleared lysates, and quantified via spectrophotometry.

### Compatibility

PureCube HiCap StrepTactin Agarose is very stable, and the strep-tag/StrepTactin interaction is compatible with the following conditions in most situations:

2% Tween 20, 2% Triton X-100, 2% IGEPAL<sup>®</sup> 630/Nonidet P40, 2% n-Octyl-β-D-glucopyranoside, 0.2% n-Nonyl-β-D-glucopyranoside, 0.35% n-Decyl-β-D-maltoside, 2% Lauryl-sarcosine, 0.1% SDS, 0.3% CHAPS, 1M Guanidine HCl, 1mM PMSF, 10% ethanol, 5M NaCl, 2M (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub>, 1M CaCl<sub>2</sub>, 25% glycerol.

## 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 packing chromatography columns, please visit our webpage at: [www.cube-biotech.com/protocols](http://www.cube-biotech.com/protocols). For purification of Strep-tagged proteins from dilute solutions, we recommend using PureCube HiCap StrepTactin MagBeads. For affinity purification of GST-tagged, rho-tagged or his-tagged proteins, Cube Biotech offers dedicated agarose resins, magnetic beads and prepacked cartridges. Also available are a range of ultrapure detergents and buffer for extraction and purification of proteins. See [www.cube-biotech.com](http://www.cube-biotech.com) 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.

PureCube StrepTactin Agarose is manufactured by IBA GmbH under German Patent Application No. 42 37 113.9 entitled "Fusion peptides with binding activity for streptavidin". Trademarks: FPLC™ (GE Healthcare); IGEPAL® (Rhodia); StrepTactin®, Strep-tag® (IBA GmbH); Superflow™ (Sterogene Bioseparations, Inc.).