

## PureCube Maleimide Activated Agarose



Product	Catalog No.	Package size
PureCube Maleimide Activated Agarose (10 mL)	51103	20 mL 50% suspension
PureCube Maleimide Activated Agarose (50 mL)	51105	100 mL 50% suspension
PureCube Maleimide Activated Agarose (250 mL)	51110	500 mL 50% suspension

### Product Description

PureCube Maleimide Agarose has been synthesized for the covalent coating of thiol-functionalized biomolecules for affinity purification.

This affinity chromatography matrix is based on BioWorks Workbeads, 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 of up to 6 mL/min (optimal 0.5–2 mL/min). Our agarose is very homogeneous in size with a medium particle diameter of 100 µm, yielding a high degree of reproducibility between individual purification runs.

The maleimide group is coupled to agarose via an epoxide function and a long C<sub>60</sub> spacer to obtain a matrix with a very high binding capacity for thiol functions with a significant reduction of non-specific binding. The protein binding capacity for GFP is ≥ 15 mg/mL, as determined by spectrophotometry.

PureCube Maleimide Agarose is delivered as a 50% suspension. Therefore, 1 mL suspension will yield a 500 µL bed volume. The suspension contains 20% ethanol to prevent microbial growth.

### Protein Binding Capacity

The protein binding capacity is up to 10 mg/mL resin, as determined by purification of glutathione-S-transferase from *E.coli* cleared lysates, and quantified via spectrophotometry.

### Compatibility

For cleaning purposes, PureCube Glutathione Agarose is very stable and can resist the following conditions in most situations:

All commonly used aqueous buffers, from pH 3 – 12, e.g. 1 M sodium acetate, pH 4.0, or 6 M guanidiniumhydrochloride, organic solvents (e.g., 70% (v/v) ethanol), 1% (w/v) SDS, 0.1 M NaOH, 0.1 M HCl.

**Shipping & Storage**

Shipping Temperature	Ambient temperature
Short-term Storage	In neutral buffer at 4 °C
Long-term Storage	100 mM sodium hydrogen carbonate, 0.02% sodium azide, pH 7.5 at 4 °C or 20 mM sodium acetate, 20% ethanol, pH 6.5 at 4 °C.

**Additional Information**

For coupling protocols, and protocols for protein purification, please visit our webpage at: [www.cube-biotech.com/protocols](http://www.cube-biotech.com/protocols). For affinity purification of His-tagged, 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.