

PureCube Thiol-Activated MagBeads

Product	Catalog No.	Package size
PureCube Thiol-Activated MagBeads (1 mL)	50601	1 x 1 mL 25% suspension 40 mg of 2,2' dipyridyl disulphide for activation.
PureCube Thiol-Activated MagBeads (5 mL)	50605	1 x 5 mL 25% suspension 40 mg of 2,2' dipyridyl disulphide for activation.
PureCube Thiol-Activated MagBeads (25 mL)	50625	1 x 25 mL 25% suspension 40 mg of 2,2' dipyridyl disulphide for activation.

Product Description

PureCube Thiol-Activated MagBeads have been synthesized for the covalent coupling of proteins containing thiol groups, i.e. reduced cysteine residues.

The affinity matrix is based on spherical magnetic agarose beads, consisting of 6% cross-linked agarose. The material is highly porous to allow optimal protein interaction. Cross-linked agarose is also physically very stable, making it suitable for purification processes without deformation or destruction. Our magnetic beads are very homogeneous in size with a medium particle diameter of 25 µm, yielding a high degree of reproducibility between individual purification runs.

A Pyridyl disulphide function (see Fig. 1) is coupled to the magnetic agarose with a hydrophilic 12-atom spacer to obtain a matrix with highest binding capacity for thiol functions and lowest unspecific binding. The functional group density is sufficient for immobilizing 5 mg protein per ml settled beads, as determined by coupling of cysteine-tagged GFP.

PureCube Thiol-activated MagBeads are delivered as a 25% suspension. Therefore, 1 mL suspension will yield a 250 µL bed volume. The suspension contains 20% ethanol to prevent microbial growth.

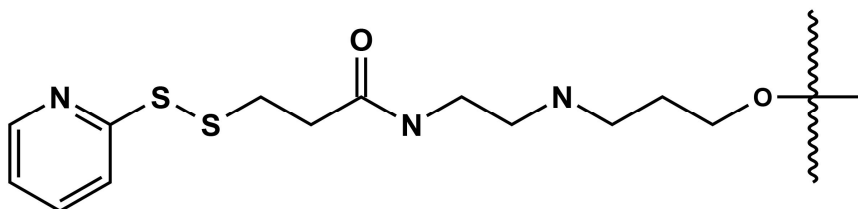


Fig. 1: Pyridyl disulphide functional group

Shipping & Storage

Shipment 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.

For coupling of proteins via carboxyl-, amino- or NHS groups, activated agaroses and MagBeads are available.

For affinity purification of His-tagged, 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.

Trademarks: Strep-tag[®] (IBA GmbH).

Proteins are our passion.