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PureCube Thiol-Activated Agarose

Product	Catalog No.	Package size
PureCube Thiol-Activated Agarose (10 mL)	**50503**	**1 x 20 mL 50% suspension 40 mg of 2,2' dipyridyl disulphide for activation.**
PureCube Thiol-Activated Agarose (50 mL)	**50505**	**1 x 100 mL 50% suspension 2 x 40 mg of 2,2' dipyridyl disulphide for activation.**
PureCube Thiol-Activated Agarose (250 mL)	**50510**	**1 x 500 ml 50% suspension 5 x 40 mg of 2,2' dipyridyl disulphide for activation.**

Product Description

PureCube Thiol Activated Agarose has been synthesized for the reversible coupling of biomolecules containing free thiol groups. This affinity chromatography matrix is based on BioWorks Workbeads, consisting of 7.5% 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 0.5 – 2 mL/min). Our agarose is very homogeneous in size with a medium particle diameter of 40 µm, yielding a high degree of reproducibility between individual purification runs.

A pyridyl disulphide function (see Fig. 1) is coupled to the 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 agarose matrix, as determined by coupling of cysteine-tagged GFP. PureCube Thiol Activated 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.

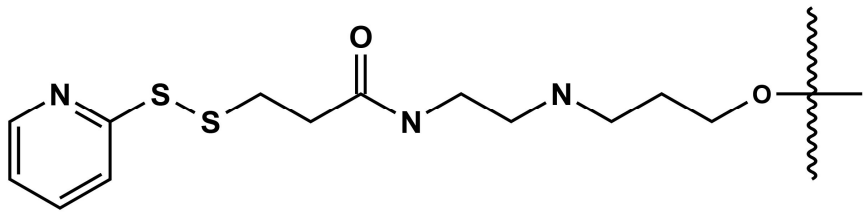

Fig. 1: Pyridyl disulphide functional group

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