

PureCube NHS-Activated Agarose

Product	Catalog No.	Package size
PureCube NHS-Activated Agarose (10 mL)	50303	20 mL 50% suspension
PureCube NHS-Activated Agarose (50 mL)	50305	100 mL 50% suspension
PureCube NHS-Activated Agarose (250 mL)	50310	500 mL 50% suspension

Product Description

PureCube NHS activated Agarose has been synthesized for the direct covalent coupling of biomolecules via free amine groups.

This activated chromatography matrix is based on spheric agarose particles, consisting of 6.0% cross-linked agarose. The material is highly porous to allow for optimal protein interaction, with a size exclusion limit for globular proteins of 4×10^6 Da. Cross-linked agarose is also physically very stable, making it suitable for purification processes under low pressure with flow rates of up to 1000 cm/min and maximum pressure of 300 kPa. Our agarose is very homogeneous in size with a medium particle diameter of 100 μ m, yielding a high degree of reproducibility between individual purification runs.

A NHS (N-hydroxy succinimide)-activated carboxy function is coupled to the agarose with a C6 spacer to obtain a matrix with highest binding capacity for amino functions. The carboxylic group density is higher than 15 μ mol/mL, as determined by acidimetric titration. The binding capacity of NHS-activated Agarose was determined with GFP protein to be up to 25 mg/mL. PureCube NHS activated Agarose is delivered as a 50% suspension. Therefore, 2 mL suspension will yield a 1 mL bed volume. The suspension contains anhydrous isopropanol to prevent microbial growth and reduce hydrolysis.

Note: It is highly recommended to withdraw resin under protective gas and after equilibration to room temperature in order to avoid condensation of humidity and hydrolysis. Furthermore, it is recommended to directly react the resin with the target molecule after withdrawal, because hydrolysis will reduce activated groups directly after contact with humidity.

Shipping & Storage

Shipment Temperature	Ambient temperature
Storage	100% Isopropanol, anhydrous, or another aprotic anhydrous solvent.

Additional Information

For coupling protocols, and protocols for protein purification, please visit our webpage at: www.cube-biotech.com/protocols. For affinity purification of 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.