

PureCube NHS Activated Agarose

Cat. No.: 50303

Description	PureCube NHS Activated Agarose is agarose resin with active NHS groups to couple biomolecules that carry free-standing amine (NH₂) groups. The NHS (N-hydroxy succinimide)-activated carboxy group is coupled to the agarose resin via a C₆ spacer to obtain a matrix with high binding capacity. The resulting amid bond is stable so that the agarose resin can be used for other applications afterward.
Support	6% agarose, highly cross-linked
Form	50% suspension in 100% isopropanol (e.g. 10 ml will be 5 ml settled resin + 5 ml storage buffer)
Bead size	50-150 µm, spherical
Carboxy group density	15 µmol/ml (determined by acidimetric titration)
Binding capacity	25 mg/ml (determined with a 24 kDa protein)
Size exclusion limit	4 x 10 ⁶ Da
Maximum pressure	≥300 kPa (at 15 cm bed height)
Maximum flow rate	≥1000 cm/h (at 15 cm bed height)
Application	PureCube NHS Activated Agarose are applicable for the direct covalent coating of biomolecules via amine functionalization. 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.
Stability	6 months after shipping
Storage	2-8 °C in 100% isopropanol, anhydrous, or another aprotic anhydrous solvent.
Shipping	Room temperature
Hazards	Product is not classified as hazardous according to (EC) No 1272/2008 [CLP]. A Material Safety Data Sheet is provided.
Manufacturer	Cube Biotech

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