

PureCube Carboxy Activated Agarose

Cat. No.: 50103, 50105

Description	PureCube Carboxy Activated Agarose is agarose resin with active carboxy groups to couple biomolecules that carry free-standing amine (NH₂) groups. A carboxy function is coupled to the agarose bead with a C₆ spacer to obtain a matrix with high binding capacity. The resulting peptide bond is stable so that the beads can be used for other applications afterward.
Support	6% agarose, highly cross-linked
Form	50% suspension in 20 mM sodium acetate with 20% ethanol, pH 6.6 (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)
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 Carboxy Activated Agarose is applicable for the direct covalent coating of biomolecules via EDC and NHS. After NHS activation, it is highly recommended to directly react the resin with target molecule, because hydrolysis will reduce activated groups directly after activation and removal of EDC/NHS.
Stability	2 years after shipping
Storage	2-8 °C. Short-term and long-term: 100 mM sodium hydrogen carbonate, 0.02% sodium azide, pH 7.5 or 20 mM sodium acetate with 20% ethanol, pH 6.6
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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