

PureCube Epoxy Activated Agarose

Cat. No.: 50705

Description	PureCube Epoxy Activated Agarose is agarose resin with active epoxy groups to couple biomolecules that carry free-standing amine (NH₂) or thiol (SH) groups. An epoxide function is coupled to the agarose bead with a C₄ spacer to obtain a matrix with high binding capacity for amino and thiol functions. The resulting amide or thiol bond is stable so that the 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 isopropanol)
Bead size	50-150 µm, spherical
Amine group density	20 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 Epoxy Activated Agarose is applicable for the direct covalent coating of biomolecules via amino and thiol groups.
Stability	6 months after shipping
Storage	2-8 °C. Short-term (1d): in neutral buffer (e.g. 50 mM phosphate, pH 7.0); Long-term: in 100% isopropanol
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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