

Data Sheet PureCube Alprenolol Agarose

PureCube Alprenolol Agarose has been synthesized for the affinity purification of β -adrenergic receptors.

This affinity chromatography resin 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 0.25 – 1 ml/min).

Our agarose resin is very homogeneous in size with a medium particle diameter of 40 μ m, yielding a high degree of reproducibility between individual purification runs. PureCube Alprenolol Agarose is delivered as 50% suspension. Therefore, 2 ml suspension will yield in 1 ml bed volume.

The suspension contains 0.02% sodium azide to prevent microbial growth.

Alprenolol has been coupled to the agarose resin via alkene functionality to obtain a matrix with highest binding capacity towards β -adrenergic receptors.

PureCube Alprenolol Agarose can be used for batch purification, as well for low pressure column purification, and is compatible for all procaryotic and eucaryotic expression systems.

However, for cleaning purposes, PureCube Alprenolol Agarose is very stable and can resist acid, alkaline and reductive conditions in most situations.

For short term (e.g. overnight) resin or packed columns can be stored in equilibration buffer (according to customer protocol). Long term storage should be in 100 mM sodium hydrogencarbonate, 0.02% sodium azide, pH 7.5, ethanol at 4 °C. The product can be shipped at ambient temperature.

For protein purification and cleaning protocols of other resins, please visit our webpage at: www.cube-biotech.com/protocols.

For purification of β -adrenergic receptors from dilute solutions, we recommend to use PureCube Alprenolol MagBeads. For affinity purification of his-tagged, strep-tagged and GST fusion proteins, agarose resins and magnetic beads are available from Cube Biotech. For extraction and purification of membrane proteins, Cube Biotech offers a range of ultrapure detergents. See www.cube-biotech.com/products for details.

Cited and other general references:

1. M. G. Caron, Y. Srinivasan, J. Pitha, K. Kociolek, R. J. Lefkowitz, Affinity Chromatography of the β -Adrenergic Receptor, J. Biol. Chem. 254, No. 8, April 25, pp 2923-2927, 1979

See www.cube-biotech.com/products for more protein affinity chromatography matrices, and detergents.

Disclaimer: Our products are intended for molecular biology applications. These products are not intended for the diagnosis, prevention, or treatment of a disease.