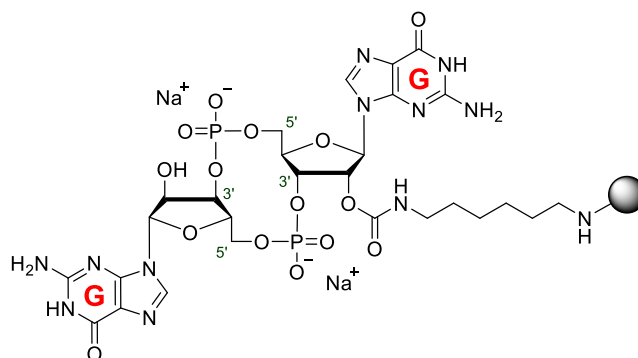


Technical Information about 2'-AHC-c-diGMP-Agarose

Gel for affinity chromatography of c-diGMP-responsive proteins

Update: April 18, 2019 HJ



Abbreviation: **2'-AHC-c-diGMP-Agarose**

BIOLOG Cat. No.: A 153

Description: In 2'-AHC-c-diGMP-Agarose 2'-AHC-c-diGMP (2'-O-(6-Aminohexylcarbamoyl)-cyclic diguanosine monophosphate, our Cat. No. A 151) has been immobilized as an affinity ligand.

Properties: 2'-AHC-c-diGMP-Agarose is suitable for affinity chromatography of c-diGMP-responsive proteins. c-diGMP (our Cat. No. C 057) was found to be a near ubiquitous signalling molecule in bacteria involved in a wide variety of physiological processes such as biofilm formation.

Specification: Suspension in 30 mM Na₂HPO₄ buffer (pH 7). Ligand density: approximately 1 µmol/ml of settled gel. UV: λ_{max} 253 nm/suspension in glycol.

Stability and Storage: 2'-AHC-c-diGMP-Agarose has sufficient stability for chromatography at ambient temperature. Nevertheless, for longer storage periods the gel should be kept in the refrigerator at + 4 - + 8 degrees Celsius. Storage buffer should contain azide for prevention of microbial growth.

Chromatography: After equilibration with about 10 column volumes of starting buffer the affinity column is loaded with the protein solution. In order to elute proteins unspecifically bound, the resin is washed, e.g. with 10 mM ATP, 1 mM GTP, 0.25 mM cGMP and/or 0.25 mM cAMP.

Elution of c-diGMP-binding proteins can be performed with free c-diGMP (e.g. 100 - 500 µM).

Suitable buffer systems for your special application have to be tested.

Regeneration of the agarose may be achievable by incubation with 8 M urea and subsequent washing with a suitable buffer.

Toxicity and Safety: Please keep in mind that the *in vivo* properties of this product are not sufficiently characterized up to now. Avoid skin contact or ingestion and allow only trained personnel to work with it.

Our products are designed, developed and sold for research purposes only. They are intended for *in vitro* and non-human *in vivo* laboratory applications. Any other use requires approval of health authorities.

Not for drug, household or related uses!

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