

## Alginate lyase Protein, Azotobacter vinelandii, Recombinant (His &amp; Myc &amp; SUMO)

## General Information

Synonyms:	Alginate lyase;algL;Poly(beta-D-mannuronate) lyase
Protein Construction:	24-374 aa
Species:	Azotobacter vinelandii
Expression Host:	E. coli
Accession:	O52195
Molecular Weight:	59.0 kDa (predicted)
AA Sequence:	AEALVPPKGYYPVDIRKGEAPACPVVPEPFTGELVFRSKYEGSDAARSTLNEEAEKAFRTKTAPITQIERGVSR MVMRYMEKGRAGDLECTLAWLDAWAEDGALLTTEYNHTGKSMRKWALGSLAGAYLRLKFSSSQPLAAYPE QARRIESWFAKVGDQVIKDWSDLPLKRINNHSYWAAWAVMAAGVATNRRPLFDWAVEQFHIAAGQVDSN GFLPNELKRRQRALAYHNYSLPPLMMVAAFALANGVDLRGDNDGALGRLAGNVLAGVEKPEPFAERAGDE DQDMEDLETDKFSWLEPYCALYSCSPALRERKAEMGPFKNFRLGGDVTRIFDPAEKSPRSTVGKRD

## QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

## Preparation and Storage

Reconstitution:  
A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

## Stability &amp; Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

## Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

## Protein Background

Catalyzes the depolymerization of alginate by cleaving the beta-1,4 glycosidic bond between two adjacent sugar residues via a beta-elimination mechanism. Splits ManA-ManA and ManA-GulA bonds, but not GulA-ManA or GulA-GulA bonds. Also cleaves acetylated residues. May serve to degrade mislocalized alginate that is trapped in

the periplasmic space.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481