



Recombinant *Azotobacter vinelandii* Alginate lyase (algL)

Product Code	CSB-EP524422DPX
Relevance	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
Abbreviation	Recombinant <i>Azotobacter vinelandii</i> algL protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	O52195
Alias	Poly(beta-D-mannuronate) lyase
Product Type	Recombinant Protein
Immunogen Species	<i>Azotobacter vinelandii</i>
Purity	≥ 90% as determined by SDS-PAGE.
Sequence	AEALVPPKGYYPVDIRKGEAPACPVVPEPFTGELVFRSKYEGSDAARSTLNE EAEKAFRTKTAPITQIERGVSRMVMRYMEKGRAGDLECTLAWLDAWAEDGAL LTTEYNHTGKSMRKWALGSLAGAYLRLKFSSSQPLAAYPEQARRIESWFAKV GDQVIKDWSLPLKRINNHSYWAAWAVMAAGVATNRRPLFDWAVEQFHIAAG QVDSNGFLPNELKRRQRALAYHNYSPLPLMMVAAFALANGVDLRGDNDGALG RLAGNVLAGVEKPEPFAERAGDEDQDMEDLETDKFSWLEPYCALYSCSPAL RERKAEMGPFKNFRLGGDVTRIFDPAEKSPRSTVVGKRD
Research Area	others
Source	E.coli
Target Names	algL
Protein Names	Recommended name: Alginate lyase EC= 4.2.2.3 Alternative name(s): Poly(beta-D-mannuronate) lyase Poly(mana) alginate lyase
Expression Region	24-374aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-SUMO-tagged and C-terminal Myc-tagged
Mol. Weight	59.0kDa
Protein Length	Full Length of Mature Protein
Image	

