

## Staphylococcus GImR3 Recombinant Protein

PX-P2073-10

### DESCRIPTION

Bifunctional autolysin from *Staphylococcus aureus* has multiple roles; it hydrolyzes the link between N-acetylmuramoyl residues and L-amino acid residues in certain cell-wall glycopeptides. It acts as endohydrolysis of the N,N'-diacetylchitobiosyl unit in high-mannose glycopeptides and glycoproteins containing the -(Man(GlcNAc)<sub>2</sub>)Asn-structure. It cleaves the peptidoglycan connecting the daughter cells at the end of the cell division cycle, resulting in the separation of the two newly divided cells. Acts as an autolysin in penicillin-induced lysis.

### OVERVIEW

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<b>SIZE</b>	10 ug
<b>ORIGIN SPECIES</b>	Staphylococcus
<b>FRAGMENT</b>	
<b>PROTEIN DELIVERED WITH TAG</b>	Yes
<b>MOLECULAR WEIGHT WITH TAG IF ANY</b>	21.14 kDa
<b>DELIVERY CONDITION</b>	Dry Ice

### PRODUCT INFORMATION

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<b>EXPRESSION SYSTEM</b>	Prokaryotic expression
<b>HOST</b>	E.coli
<b>PURITY</b>	85%
<b>PROTEIN ACCESSION</b>	WP_031826599.1
<b>FORM</b>	Frozen
<b>BUFFER</b>	PBS, pH 7.5
<b>STABILITY &amp; STORAGE</b>	4°C for short term (1 week), -20°C or -80°C for long term (avoid freezing/thawing cycles; addition of 20-40% glycerol improves cryoprotection)

## MORE INFO

<b>GENE ID</b>	1123728
<b>SWISSPROTID</b>	Q99V41
<b>UNIPROT ID</b>	Q99V41
<b>UNIPROT LINK</b>	<a href="http://www.uniprot.org/uniprot/Q99V41">http://www.uniprot.org/uniprot/Q99V41</a>
<b>NCBI GENE ALIASES</b>	
<b>SYNONYMS</b>	GlmR3, Bifunctional autolysin, atl, nag, SA0905

## PROTEIN SEQUENCE

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MAHNHRHKHKLAYTVTKPQTTQTVSKIAQVKPNNTGIRASVYEKTAKNGAKYADRTFYVTKERAHGNETYVLLNNTSHNIPLGWFNVKDLNVQNLGKEVKTT  
QKYTVNKSNNGLSMVPWGTKNQVILTGNNIAQGTFNATKQVSVGKD VYLYGTINNRTGWVNAKDLTAPTAVKPTTSAAKDYNITYVIK

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