

## Gelatinase Protein, Enterococcus faecalis, Recombinant (His & SUMO)

### General Information

Synonyms: Gelatinase;gelE;Coccolysin

Protein Construction: 193-510 aa

Species: Enterococcus faecalis

Expression Host: E. coli

Accession: Q833V7

Molecular Weight: 50.5 kDa (predicted)

VGSEVTLKNSFQVAFNVPVEKSNTGIALHGTDNTGVYHAVVDGKNNYSIIQAPSLVALNQNNAVDAYTHGKFV  
KTYIEDHFQRHSIDDRGMPILSVVDEQHPDAYDNAFWWDGKAMRYGETSTPTGKTYASSLDVVGHEMTHGVT  
AA Sequence: EHTAGLEYLGQSGALNESYSDLMGYIISGASNPEIGADTQSVDRKTGIRNLQTPSKHGQPETMAQYDDRRARY  
KGTPYYDQGGVHYNSGIINRIGYTIIQNLGIEKAQTIFYSSLVNYLTPKAQFSDARDAMLAAAKVQYGDEAASV  
VSAAFNSAGIGAKEDIQVNPSESVLVNE

### 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 & 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

Metalloprotease capable of the hydrolysis of insoluble hydrophobic substrates. Hydrolyzes azocoll and gelatin and, at a lower rate, soluble and insoluble collagens. Does not cleave short synthetic peptides. Preferentially hydrolyzes the 24-Phe-|-Phe-25 bond in the insulin B-chain, followed by the 5-His-|-Leu-6 bond. Inactivates

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endothelin-1, primarily by cleavage of the 5-Ser-|-Leu-6 and 16-His-|-Leu-17 bonds. Hydrolyzes the alpha chain of C3 to generate a C3b-like protein. Inhibits complement-mediated hemolysis and opsonization of bacteria. Hydrolyzes the insect antimicrobial peptide cecropin. Decreases the length of E.faecalis chains via the activation of autolysin. Degrades polymerized fibrin.

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