

Subtilisin-A Protein, Bacillus subtilis, Recombinant (His & KSI)

General Information

Synonyms:	Antilisterial bacteriocin subtilisin;sbo;sboA;Subtilisin-A
Protein Construction:	9-43 aa
Species:	Bacillus subtilis
Expression Host:	E. coli
Accession:	O07623
Molecular Weight:	18.8 kDa (predicted)
AA Sequence:	NKGCATCSIGAACLVDGPIPDFEIAGATGLFGLWG

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:	> 85% 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:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

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

Has bacteriocidal activity against some Gram-positive bacteria such as Listeria, some species of Bacillus and E. faecium. A single mutation (Thr-14-Ile) confers hemolytic activity against rabbit and human blood.

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