

## Subtilisin Carlsberg Protein, Bacillus licheniformis, Recombinant (His & SUMO)

### General Information

Synonyms: subC; apr; Subtilisin Carlsberg

Protein Construction: 106-379 aa

Species: Bacillus licheniformis

Expression Host: E. coli

Accession: P00780

Molecular Weight: 42.0 kDa (predicted)

AA Sequence:

AQTVPYGIPLIKADKVQAQGFKGANVKVAVLDTGIQASHPDLNVVGGASFVAGEAYNTDGNGHGHVAGTV  
AALDNTTGVLVGAPSVSLYAVKVLNSSGSGTYSIGVSGIEWATTNGMDVINMSLGGPSGSTAMKQAVDNAY  
ARGVVVVAAAAGNSGSSGNTNTIGYPAKYDSVIAVGAVDNSNSNRASFSSVGAELEVMAPGAGVYSTYPTSTYA  
TLNGTSMASPHVAGAAALILSKHPNLSASQVRNRLSSTATYLGSSFYYGKGLINVEAAAQ

### 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

Subtilisin is an extracellular alkaline serine protease, it catalyzes the hydrolysis of proteins and peptide amides (Ref.4, PubMed:11109488). Shows high specificity for aromatic and hydrophobic amino acids in the P1 substrate position. May play an important role in the degradation of feather keratin.

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