

Serralysin Protein, Proteus mirabilis, Recombinant (His & SUMO)

General Information

Synonyms: Serralysin; Extracellular metalloprotease; zapA

Protein Construction: 17-491 aa

Species: Proteus mirabilis

Expression Host: E. coli

Accession: Q11137

Molecular Weight: 68.4 kDa (predicted)

AA Sequence:

DLLDKSGIFYNYSTKVLPSFDYDTAGKHIAREDSTWNGKYVIGQPAEVTYSFPKWEGKFNQFGNKNPYEFNEL
QKEHARKSLDAWSDIANIKFTEVAVGNVDGMKASDVKTDITFGNIYDPNGTFQAYATLPNTYAYGKDLGSGQA
WFSDYHYAGNTTPELGNYGRLTIIHEIGHTLGLMHPGDYNAGQNVPGYLKSDYAEDSRQYTVMSYWDEYET
GAHFQGAYAGAPLLHDISAMQYLYGANTTTTRTGDDVYGFNSNTGIDYYTATDSNDKLIFSVDGSGGNDTFD
FSGFYQDQLIDLRAGNFSVDVGLQKNVSIAQNVTIENAIGGFGNDIIHGNDADNTLIGGEGDDIYGHSGNNTI
YGGRGQDTLHGGTGSNTFIYKEIADSLVTAADKIMDFKTGIDKIDLSTLIQDTFSSKILNFVDNFTGNAGEATLS
YNEVTNASELAINAYGYNYPDFKIDIVGFVNYETDFIV

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:

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

A DRUG SCREENING EXPERT

One of the virulence factors produced during swarmer cell differentiation of the bacteria, which seems to be associated with pathogenesis. The protease activity is limited to IgA1, IgA2, as well as IgG degradation.

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