

Streptopain Protein, *S. pyogenes*, Recombinant (His & SUMO)

General Information

Synonyms:	Group A streptococcal cysteine protease (Streptococcal cysteine proteinase);speB;SPE B; Exotoxin type B;Streptopain;Streptococcus peptidase A (SPP)
Protein Construction:	146-398 aa
Species:	<i>Streptococcus pyogenes</i>
Expression Host:	<i>E. coli</i>
Accession:	POC0J0
Molecular Weight:	43.6 kDa (predicted)
AA Sequence:	QPVVKSLDLSKGIHYNQGNPYNLLTPVIEKVKPGEQSFVQGHAATGCVATATAQIMKYHNYPNKGLKDYYT LSSNNPYFNHPKNLFAAISTRQYNWNNILPTYSGRESNVQKMAISELMADVGISVDMDYGPSSGSAGSSRV QRALKENFGYNQSVHQINRSDFSKQDWEAQIDKELSQNQPVYYQGVGKVGGHAFVIDGADGRNFYHVNW GWGGVSDGGFRLDALNPSALGTGGGAGGFNGYQSAVVGKIP

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

Important streptococcal virulence factor which cleaves human fibronectin and degrades vitronectin. Also cleaves human IL1B precursor to form biologically active IL1B. Can induce apoptosis in human monocytes and epithelial cells in vitro, and reduces phagocytic activity in monocytic cells. Thus, may play a role in bacterial colonization,

invasion, and inhibition of wound healing.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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