

SPI Protein, Lentinula edodes, Recombinant (His)

General Information

Synonyms:	Serine protease inhibitor
Protein Construction:	1-142 aa
Species:	Lentinula edodes
Expression Host:	E. coli
Accession:	P81639
Molecular Weight:	20.0 kDa (predicted)
AA Sequence:	SLETGRYLIHNGNNIVSRNLAEDRSLNPKRIVLLEPTDKIQLTWIIEKSGDEYILNNRGAPTAHIEDHVFALLIHQEGATKWSIEAVPRHGRNAYIIKGSDDGKGVVAPDKAGEQIIYRTLIVGPSEPPTFPLNQVFQIIKLE

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:

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

Serine protease inhibitor. Active against beta-trypsin and alpha-chymotrypsin with dissociation constants of 0.35 nM and 40 nM respectively. Inhibits factor XIa, but not other enzymes involved in coagulation and fibrinolysis. Does not inhibit subtilisin, lysyl endopeptidase, arginyl endopeptidase or papain.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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