

SERPINB1 Protein, Pig, Recombinant (His & Myc)

General Information

Synonyms:	SERPINB1;Serpine B1;LEI;Leukocyte neutral proteinase inhibitor (LNPI);Leukocyte elastase inhibitor;ELANH2
Protein Construction:	1-378 aa
Species:	Sus scrofa (Pig)
Expression Host:	E. coli
Accession:	P80229
Molecular Weight:	50.0 kDa (predicted)
AA Sequence:	MEQLSAANTRFALDLFRALNESNPAGNIFISPFSSALAMILLGTRGNTAQMSKALHFDTVKDIHSRFQSLN ADINKCGASYILKLANRLFGEKTYHFLPEFLASTQKTYGAELASVDFLRASEEARKAINWVKEQTEGKIPPELLA SGVVDSATKLVLVNAIYFKGSWQEKFMTEATKDAPFRLNKKDSKTVKMMYQKKKFPFGYIKELKCRVLELPYQ GKDLSMVILLPDSIEDESTGLRKIEQHLLLEKLNWTKPDNLELLEVVNHLPRFRLEESYDLNAPLARLGVQDLF GSRADLTGMSEARDFISKVVHKAFFVEVNEEGTEAAAATAGIAVFAMLMPEEDFIADHPFFIRHNPSSNILFL GRLSSP

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

Neutrophil serine protease inhibitor that plays an essential role in the regulation of the innate immune response,

inflammation and cellular homeostasis. Acts primarily to protect the cell from proteases released in the cytoplasm during stress or infection. These proteases are important in killing microbes but when released from granules, these potent enzymes also destroy host proteins and contribute to mortality. Regulates the activity of the neutrophil proteases elastase, cathepsin G, proteinase-3, chymase, chymotrypsin, and kallikrein-3. Acts also as a potent intracellular inhibitor of GZMH by directly blocking its proteolytic activity. During inflammation, limits the activity of inflammatory caspases CASP1, CASP4 and CASP5 by suppressing their caspase-recruitment domain (CARD) oligomerization and enzymatic activation. When secreted, promotes the proliferation of beta-cells via its protease inhibitory function.; May be cleaved leading to a loss of its anti-protease activity and to the appearance of an endonuclease activity. However no catalytic site was identified.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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