

Serpina1d Protein, Mouse, Recombinant

General Information

Synonyms:	PI4;serine (or cysteine) peptidase inhibitor, clade A, member 1D;AI118301;Spi1-4;Serpina1d;Dom4
Protein Construction:	A DNA sequence encoding the mouse Serpina1a (XP_003945711.1) (Met1-Lys413) was expressed with five amino acids (DDDDK) at the C-terminus. Predicted N terminal: Glu 25
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	XP_003945711.1
Molecular Weight:	44.1 kDa (predicted); 54 kDa (reducing conditions)

QC Testing

Biological Activity:	Measured by its ability to inhibit trypsin cleavage of a fluorogenic peptide substrate, Mca-Arg-Pro-Lys-Pro-Val-Glu-Nval-Trp-Arg-Lys (DNP)-NH ₂ . The IC ₅₀ value is < 15 nM.
Purity:	> 85 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

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:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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