

Recombinant Mouse Serping1 Protein, His-tagged

Cat. No. Serping1-398M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Serping1 Protein (Asp23-Gly504) with N-His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Asp23-Gly504
Description	Enables complement binding activity and serine-type endopeptidase inhibitor activity. Predicted to be involved in negative regulation of complement activation, lectin pathway and negative regulation of endopeptidase activity. Predicted to act upstream of or within several processes, including complement activation, classical pathway; fibrinolysis; and negative regulation of peptidase activity. Located in extracellular space. Is expressed in several structures, including genitourinary system; neural ectoderm; notochord; pancreas mesenchyme; and visceral pericardium. Human ortholog(s) of this gene implicated in several diseases, including COVID-19; angioedema (multiple); cerebral infarction; pancreatitis; and toxic shock syndrome. Orthologous to human SERPING1 (serpin family G member 1).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 56.9 kDa Accurate Molecular Mass: 63 kDa

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Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Serping1 serine (or cysteine) peptidase inhibitor, clade G, member 1 [Mus musculus (house mouse)]
Official Symbol	Serping1
Synonyms	Serping1; serine (or cysteine) peptidase inhibitor, clade G, member 1; C1nh; C1INH; plasma protease C1 inhibitor; C1 Inh; C1 esterase inhibitor; C1 inhibitor; C1-inhibiting factor; complement component 1 inhibitor; serine (or cysteine) proteinase inhibitor, clade G (C1 inhibitor), member 1; serine (or cysteine) proteinase inhibitor, clade G, member 1; serpin G1
Gene ID	12258

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mRNA Refseq	NM_009776
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Protein Refseq	NP_033906
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UniProt ID	P97290
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