

Product datasheet for **TP727223**

Serping1 Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Mouse Serpin G1/C1 Inhibitor (C-6His)
Species:	Mouse
Expression cDNA Clone or AA Sequence:	Ala20-Gly504
Tag:	C-His
Buffer:	Lyophilized from a 0.2 um filtered solution of 20mM Tris-HCl, 150mM NaCl, pH 8.0.
Note:	Recombinant Mouse Serine Protease Inhibitor-clade G1 is produced by our Mammalian expression system and the target gene encoding Ala20-Gly504 is expressed with a 6His tag at the C-terminus.
Storage:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Stability:	12 months from date of despatch
Locus ID:	12258
UniProt ID:	P97290
Synonyms:	SERPIN G1;Plasma protease C1 inhibitor;C1 Inh;C1 esterase inhibitor;C1-inhibiting factor;Serping1;C1nh
Summary:	SERPIN G1 is a member of the serpin family, The C-terminal serpin domain is similar to other serpins, and this part of C1-INH provides the inhibitory activity. SERPIN G1 is involved in the inhibition of the complement system to prevent spontaneous activation. SERPIN G1 may play a potentially crucial role in regulating important physiological pathways including complement activation, blood coagulation, fibrinolysis and the generation of kinins. SERPIN G1 prevents the proteolytic cleavage of later complement components C4 and C2 by C1 and MBL. SERPIN G1 is a very efficient physiological inhibitor of FXIIa, plasma kallikrein and fXIa, and could inhibit chymotrypsin and kallikrein. It forms a proteolytically inactive stoichiometric complex with the C1r or C1s proteases in the C1 complex of classical pathway of complement. Activation of the C1 complex is under control of the C1-inhibitor.



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