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32-8484: Recombinant Mouse Serpin G1/C1 Inhibitor (C-6His)

Gene : Serping1
Gene ID : 12258
Uniprot ID : P97290

Description

Source: Human Cells.
MW :54.6kD.
Recombinant Mouse Serpin 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. 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.

Product Info

Amount :	10 µg / 50 µg
Content :	Lyophilized from a 0.2 µm filtered solution of 20mM TrisHCl, 150mM NaCl,pH8.0.
Storage condition :	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.
Amino Acid :	AFSDPEATSHSTQDPLEAQAKSRESFPERDDSWSPPEPTVLPSTWPTTSVAITITNDTMGKVANESFSQHSQPA AQLPTDSPGQPPLNSSSQPSTASDLPTQATTEPFCPEPLAQCSDSDRDSSEAKLSEALTDFSVKLYHAFSATKM AKTNMAFSPFSIASLLTQVLLGAGDSTKSNLESILSYPKDFACVHQALKGFSSKGVTSVSQIFHSPDLAIRDTYVN ASQSLYGSSPRVLGPDSAANLELINTWVAENTNHKIRKLLDSLPSDTCLVLLNAVYLSAKWKITFEPKKMMAPFF YKNSMIKVPMMSSVKYPVAQFDDHTLKAKVGQLQLSHNLSFVIVVPVFPKHQLKDVEKALNPTVFKAIMKKLEL SKFLPTYLTMPHIKVKSSQDMLSVMEKLEFFDFTYDLNLCGLTEDPDLQVSAMKHETVLELTESGVEAAAASAIS FGRSLPIFEVQRPFLFLLWDQQHRFPVFMGRVYDPRGVDHHHHHH

Application Note

Endotoxin : Less than 0.1 ng/Ã□Âµg (1 IEU/Ã□Âµg) as determined by LAL test.