

C1 Esterase inhibitor, Human Plasma recombinant protein
Plasma protease C1 inhibitor, C1-inhibiting factor, Serpin G1, Complement C1 esterase inhibitor, Est
Catalog # PBV10923r

Specification

C1 Esterase inhibitor, Human Plasma recombinant protein - Product info

Primary Accession [P05155](#)
Calculated MW **100 kDa KDa**

C1 Esterase inhibitor, Human Plasma recombinant protein - Additional Info

Gene ID **710**
Gene Symbol **Serpin G1**
Other Names
Plasma protease C1 inhibitor, C1-inhibiting factor, Serpin G1, Complement C1 esterase inhibitor, Esterase inhibitor C-1

Gene Source **Human**
Source **Human Plasma**
Assay&Purity **SDS-PAGE; ≥95%**
Assay2&Purity2 **N/A;**
Recombinant **No**
Target/Specificity
C1 Esterase inhibitor

Format
Frozen

Storage
-80°C; Frozen in 20 mM potassium phosphate, pH 7.0, with 250 mM KCl.

C1 Esterase inhibitor, Human Plasma recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

C1 Esterase inhibitor, Human Plasma recombinant protein - Images

C1 Esterase inhibitor, Human Plasma recombinant protein - Background

A single chain glycoprotein which inhibits C1, C1r, C1s, plasma kallikrein, Factors XIa, XIIa, and plasmin. Present in plasma at 16-33 mg per 100 ml. C1 esterase inhibitor deficiency is a rare condition resulting in facial swelling and abdominal cramping. Usually the condition is hereditary, though it may also occur when the C1EI is non-functional. The C1 esterase inhibitor protein is a normal constituent of serum which functions as a serine proteinase inhibitor of the serpin family. The C1 esterase inhibitor inhibits the complement proteases C1r and C1s, as well as the proteases kallikrein, factor XIa, XIIa and plasmin of the blood clotting system. The concentration of C1 esterase inhibitor protein is reduced to 10-30% of normal in patients with angioedema secondary to C1 esterase inhibitor deficiency (85% of patients with Hereditary Angioedema (HAE)); in 15% of patients with HAE, the concentrations of the inhibitor protein is normal but function is markedly reduced.

C1 Esterase inhibitor, Human Plasma recombinant protein - References

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Bock S.C.,et al.Biochemistry 25:4292-4301(1986).
Carter P.E.,et al.Eur. J. Biochem. 173:163-169(1988).
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