SERPINE1

Recombinant Human Serpin E1/PAI-1 Stable Four-Point Mutant

Catalog No.	CRP180B CRP180C	**Quantity:**	500 µg 1 mg

Alternate Names: PAI, PAI1, PAI-1,PLANH1, SERPINE1

Description: Plasminogen Activator Inhibitor 1 (PAI-1) is the principal inhibitor of Tissue Plasminogen Activator (tPA) and Urokinase (uPA), the activators of Plasminogen and hence fibrinolysis. It is a serine protease inhibitor (serpin) protein. PAI-1 is mainly produced by the endothelium, but is also secreted by other tissue types, such as adipose tissue.

Recombinant Human Serpin E1/PAI-1 Stable Four-Point Mutant contains the following four mutations: K154T, Q319L, M354I, and N150H , extending its serpin activity half-life. These mutations come together to confer great stability to the otherwise labile molecule, essentially locking it into the active conformation. It is ideal for *in vivo* studies.

Gene ID: 5054

Concentration: 2.5 mg/mL

Source: *E. coli*

Molecular Weight: 43.0 kDa

Formulation: Frozen Liquid in 0.05 M Sodium Phosphate + 0.1 M NaCl + 1 mM EDTA, pH 6.6

Biological Activity: >95% active by uPA titration

Specific Activity: Second order rate constant for inhibition of:
uPA = 5.1×10^6 /M s
tPA = 7.9×10^5 /M s

Applications: Functional Studies

Storage & Stability: Store in working aliquots at -80°C. Stable for 3 years from delivery. **Avoid repeated freeze-thaw cycles.**

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