

SERPINE1

Recombinant Human Serpin E1/PAI-1 Stable NBD-labeled Scissor Bond Point Mutant

Catalog No.	CSI20512A CSI20512B	Quantity:	0.5 mg 1.0 mg
Alternate Names:	Plasminogen Activator Inhibitor type 1, PAI, PAI1, PAI-1, PLANH1, Serpin peptidase inhibitor, clade E, SERPINE1,		
Description:	<p>Plasminogen Activator Inhibitor 1 (PAI-1), also known as Serpin peptidase inhibitor, clade E (SERPINE1), is a member of the serine protease inhibitor (serpin) superfamily. It is the principal inhibitor of Tissue Plasminogen Activator (tPA) and Urokinase (uPA), the activators of Plasminogen and hence fibrinolysis. PAI-1 is mainly produced by the endothelium, but is also secreted by other tissue types, such as adipose tissue. Defects in the PAI-1 gene are the cause of plasminogen activator inhibitor-1 deficiency (PAI-1 deficiency), and high concentrations of the protein are associated with thrombophilia.</p> <p>The Recombinant Human Serpin E1/PAI-1 Scissor Bond NBD-labeled Stable Point Mutant is a fluorescence-labeled probe produced by the mutagenesis of the P1' methionine residue (Met347) at the P1-P1' scissile bond of the Human Serpin E1/PAI-1 stable mutant (K154T, Q319L, M354I and N150H) to cysteine. Subsequent incorporation of the thiol-reactive iodoacetamide dye NBD [N,N'-dimethyl-N-(iodoacetyl)-N'-(7-nitrobenz-2-oxa-1,3-diazol-4-yl)ethylenediamine] produced a reporter PAI-1 with extended half life. This reagent is useful as a tracer probe because its fluorescence is quenched as the as the PAI-1 structure is changed by protein-protein interactions. Other properties of the NBD-PAI-1 mutant have not been fully characterized.</p>		
Concentration:	2.5 mg/ml		
Gene ID:	5054		
Source:	<i>E. coli</i>		
Molecular Weight:	43 kDa		
Formulation:	Frozen Liquid in 0.05 M Sodium Phosphate + 0.1 M NaCl + 1 mM EDTA, pH 6.6		
Purity:	>95% by SDS-PAGE		
Endotoxin Level:	< 0.1 ng/μg of protein.		
Storage & Stability:	Store at -80°C. Protect from Light. Stable for 3 years from delivery. For long term use, divide into working aliquots and freeze at -80°C. Avoid repeated freeze-thaw cycles.		

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

