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32-20592: Recombinant Human PAI-1(Discontinued)

Reactivity : Mouse
Alternative Name : Plasminogen Activator Inhibitor-1, Serpin E1

Description

Source: E.coli ; Plasminogen Activator Inhibitor-1 (PAI-1, Serpin E1) is a member of the serpin family of serine protease inhibitors, and is the primary inhibitor of urokinase and tissue plasminogen activator (tPA). PAI-1 is expressed predominantly in adipose, liver and vascular tissues, but is also produced by certain tumor cells. Elevated levels of PAI-1 are associated with obesity, diabetes and cardiovascular disease, and increased production of PAI-1 is induced by various obesity-related factors, such as TNFAlpha , glucose, insulin, and very-low-density lipoprotein. The obesity-related elevation of PAI-1 levels, along with the consequential deficiency in plasminogen activators, can lead directly to increased risk of thrombosis and other coronary diseases. Accordingly, PAI-1 has been implicated as an important molecular link between obesity and coronary disease. PAI-1 can also specifically bind vitronectin (VTN) to form a stable active complex with an increased circulatory half-life relative to free PAI-1. Recombinant Human PAI-1 is a 42.7 kDa protein containing 379 amino acid residues.

Product Info

Amount : 2 µg / 10 µg
Purification : Purity:>= 95% by SDS-PAGE gel and HPLC analyses.
Content : This recombinant protein is supplied in lyophilized form.
Amino Acid : VHHPPSYVAH LASDFGVRVF QQVAQASKDR NVVFSPYGVA SVLAMLQLTT GGETQQQIQA AMGFKIDDKG MAPALRHLYK ELMGPWNKDE ISTTDAIFVQ RDLKLVQGFM PHFFRLFRST VKQVDFSEVE RARFIINDWV KTHTKGMISN LLGKGAVDQL TRLVLVNALY FNGQWKTPFP DSSTHRRLFH KSDGSTVSVP MMAQTNKFNY TEFTTPDGHY YDILELPYHG DTLSMFIAAP YEKEVPLSAL TNILSAQLIS HWKGNMTRLP RLLVLPKFSL ETEVDLRKPL ENLGMTDMFR QFQADFTSLS DQEPLHVAQA LQKVKIEVNE SGTVASSSTA VIVSARMAPE EIIMDRPFLF VVRHNPTGTV LFMGQVMEP

Application Note

Determined by its inhibitory effect against single chain tPA induced cleavage of a chromogenic substrate in Imidazole Buffer at 37ºC. Half maximal inhibition against 1.0 µg/ml of single chain tPA was obtained at a concentration of 2.0 µg/ml.