

Product Data Sheet

Cat # RP-1472

Recombinant Human Plasminogen Activator Inhibitor-1

Size: 5 ug

Plasminogen activator inhibitor-1 is the principal inhibitor of tissue plasminogen activator (tPA) and urokinase (uPA), the activators of plasminogen and hence fibrinolysis (the physiological breakdown of blood clots). It is a serine protease inhibitor (serpin) protein (SERPINE1). The other PAI, plasminogen activator inhibitor-2 (PAI-2) is secreted by the placenta and only present in significant amounts during pregnancy. In addition, protease nexin acts as an inhibitor of tPA and urokinase. PAI-1, however, is the main inhibitor of the plasminogen activators.

Source: Escherichia Coli. PAI1 Human Recombinant fused to N-terminal His-Tag produced in E. Coli is a single, non-glycosylated polypeptide chain containing 400 amino acids (24-402) and having a molecular mass of 45 kDa. The PAI1 is purified by proprietary chromatographic techniques. 150mM Na₂HPO₄, pH 6.6, 0.5mM NaCl, 2mM Glutathione and 0.01% Tween-80.

Applications and Suggested Dilutions: Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE. Users must optimize the appropriate concentration and conditions for each assay.

Storage and Stability: PAI1 although stable 10°C for 1 week, should be stored desiccated below -18°C, -70°C is preferred. **Please prevent freeze-thaw cycles.** If supplied in powder then reconstitute it in 100 ul water for 1 mg/ml stock and store in liquid at 4°C for ~1 week or aliquots in suitable size and store at -20°C for long term storage.

Usage:

This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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