

TECHNICAL DATA SHEET

Recombinant Human PAI-1 (Carrier-Free)

Catalog Number: 21-9095

RPx-Pro™ Recombinant Protein PRODUCT INFORMATION

CONTENTS

Recombinant Human PAI-1 (Carrier-Free)

DESCRIPTION

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.

MOLECULAR MASS

Recombinant Human PAI-1 is a 42.7 kDa protein containing 379 amino acid residues.

AMINO ACID SEQUENCE

VHHPPSYVAH LASDFGVRVF QQVAQASKDR NVVFSPLYGVA SVLAMLQLTT GGETQQQIQA AMGFKIDDKG MAPALRHLYK ELMGPWNKDE
ISTTDAIFVQ RDLKLVQGFV PHFFRLFRST VKQVDFSEVE RARFIINDWV KHTKGMISN LLGKGAVDQL TRLVLVNALY FNGQWKTPFP DSSTHRRLFH
KSDGSTVSVV MMAQTNKFN YTEFTTPDGHY YDILELPYHG DTLSMFIAAP YEKEVPLSAL TNILSAQLIS HWKGNMTRLP RLLVLPKFSL ETEVDLRKPL
ENLGMTDMFR QFQADFTSLS DQEPLHVAQA LQKVKIEVNE SGTVASSSTA VIVSARMAPE EIIMDRPFLF VVRHNPTGTV LFMGQVMEP

SOURCE

E.coli

APPLICATIONS

Bioassay

PURITY

95 %

STORAGE

-20°C

PROTEIN CONTENT

Content Verified by UV Spectroscopy and/or SDS-PAGE gel.

ENDOTOXIN LEVEL

Endotoxin level is <0.1 ng/μg of protein (<1EU/μg).

AUTHENTICITY

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

CROSS REACTIVITY

Mouse

BIOACTIVITY

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

RESEARCH AREAS

Angiogenesis/Cardiovascular, Cancer, Diabetes/Weight Regulation

RECONSTITUTION

See Certificate of Analysis (COA) for lot specific reconstitution information.

REFERENCES

Seike, T. Interaction between lung cancer cells and astrocytes via specific inflammatory cytokines in the microenvironment of brain metastasis. 2011. *Clinical & Experimental Metastasis*; 28(1):13-25. Ambadapadi, S. Reactive Center Loop (RCL) Peptides Derived from Serpins Display Independent Coagulation and Immune Modulating Activities. 2016. *The Journal of Biological Chemistry*; 291(6):2874-87.

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