TECHNICAL DATA SHEET

Recombinant Human PAI-2 (Carrier-Free)

Catalog Number: 21-9097

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Human PAI-2 (Carrier-Free)

DESCRIPTION

PAI-2 is an inhibitory serpin expressed mainly in keratinocytes, activated monocytes, and placental trophoblasts. It exists predominantly as a 47 kDa, nonglycosylated, intracellular protein, which can be induced to be secreted as 60 kDa glycoprotein.

MOLECULAR MASS

Recombinant Human PAI-2 is a 46.5 kDa, nonglycosylated protein of 415 residues.

AMINO ACID SEQUENCE

MEDLCVANTL FALNLFKHLA KASPTQNLFL SPWSISSTMA MVYMGSRGST EDQMAKVLQFNEVGANAVTP MTPENFTSCG FMQQIQKGSY PDAILQAQAA DKIHSSFRSL SSAINASTGNYLLESVNKLF GEKSASFREE YIRLCQKYYS SEPQAVDFLE CAEEARKKIN SWVKTQTKGKIPNLLPEGSV DGDTRMVLVN AVYFKGKWKT PFEKKLNGLY PFRVNSAQRT PVQMMYLREKLNIGYIEDLK AQILELPYAG DVSMFLLLPD EIADVSTGLE LLESEITYDK LNKWTSKDKMAEDEVEVYIP QFKLEEHYEL RSILRSMGME DAFNKGRANF SGMSERNDLF LSEVFHQAMVDVNEEGTEAA AGTGGVMTGR TGHGGPQFVA DHPFLFLIMH KITNCILFFG RFSSP

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 37oC. Half maximal inhibition against 1.0 ug/ml of single chain tPA was obtained at a concentration of 1.0 ug/ml.

RESEARCH AREAS

Proliferation, Cancer, Diabetes/Weight Regulation

RECONSTITUTION

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

REFERENCES

Delhase, M. TANK-binding kinase 1 (TBK1) controls cell survival through PAI-2/serpinB2 and transglutaminase 2. 2012. Proceedings of the National Academy of Sciences of the USA; 109(4):E177-86. Valiente, M. Serpins promote cancer cell survival and vascular co-option in brain metastasis. 2014. Cell; 156(5):1002-16.