

TECHNICAL DATA SHEET

Recombinant Human Vaspin (Carrier-Free)

Catalog Number: 21-9090

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Human Vaspin (Carrier-Free)

DESCRIPTION

Vaspin is a newly described adipocytokine expressed predominantly in visceral white adipose tissues. Structure analysis of vaspin predicts the presence of three beta-sheets, nine alpha-helices, and one central loop, which are distinctive structural features of Serpin family members. The serpins are irreversible ("suicidal") serine-protease inhibitors, characterized by having more than 30% sequence homology with alpha1-antitrypsin and a conserved tertiary structure, which contains an exposed reactive center loop that acts as a pseudo-substrate for the target proteinase.

MOLECULAR MASS

Recombinant Human Vaspin is a 45.2 kDa protein containing 395 amino acid residues.

AMINO ACID SEQUENCE

MLKPSFSPRN YKALSEVQGW QQRMAAKELA RQNMDLGFKL LKKLAFYNPG RNIFLSPLSI STAFSMLCLG AQDSTLDEIK QGFNFRKMPE KDLHEGFHYI
IHELTQKTQD LKLSIGNTLF IDQRLQPQRK FLEDAKNFYS AETILTNFQN LEMAQKQIND FISQKTHGKI NNLINIDPG TVMLLANYIF FRARWKHEFD
PNVTKEEDFF LEKNSSVKVP MMFRSGIYQV GYDDKLSCTI LEIPYQKNIT AIFILPDEGK LKHLEKGLQV DTFSRWKTLT SRRVVDVSVPL RLHMTGTFDL
KKTLSYIGVS KIFEEHGLDT KIAPHRSLKV GEAVHKAELK MDERGTEGAA GTGAQTLPME TPLVVKIDKP YLLLIYSEKI PSVLFLGKIV NPIGK

SOURCE

E.coli

APPLICATIONS

Bioassay

PURITY

98 %

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

BIOACTIVITY

Data not available at this time.

RESEARCH AREAS

Inflammation, Angiogenesis/Cardiovascular, Diabetes/Weight Regulation

RECONSTITUTION

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

REFERENCES

Ma L, Wang R, Dong W, Zhao Z. Exp Gerontol. 2017 Nov 23;102:28-35. doi: 10.1016/j.exger.2017.11.013. Vink RG, Roumans NJ, Mariman EC, van Baak MA. Physiol Rep. 2017 Nov;5(21). pii: e13450. doi: 10.14814/phy2.13450.

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