

TECHNICAL DATA SHEET

Recombinant Human GASP-1 (Carrier-free)

Catalog Number: 21-7058

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Human GASP-1 (Carrier-free)

DESCRIPTION

Growth and differentiation factor-associated serum protein-1 (GASP-1) is a secreted protein that functions as an inhibitory binding protein of some TGF-beta family members. GASP proteins are involved in modulating lysosomal sorting and targeting receptors for lysosomal degradation.

MOLECULAR MASS

Recombinant human GASP-1 is a 542 amino acid protein that migrates at an apparent molecular weight of approximately 55-66 kDa by SDS-PAGE analysis under non-reducing conditions.

AMINO ACID SEQUENCE

LPPIRYSHAG ICPNDMNP NL WVDAQSTCRR ECETDQECET YEKCCPNVCG TKSCVAARYM DVKGGKGPVG MPKEATCDHF
MCLQQGSECD IWDGQPVCKC KDRCEKEPSF TCASDGLTY Y NRCYMDAEAC SKGITLAVVT CRYHFTWPNT SPPPPETTMH
PTTASPETPE LDMAAPALLN NPVHQSVTMG ETVSFLCDVV GRPRPEITWE KQLEDRENVV MRPNHVRGNV VVTNIAQLVI
YNAQLQDAGI YTCTARNVAG VLRADFPLSV VRGHQAAATS ESSPNGTAFP AAELCKPPDS EDCGEEQTRW HFDAQANNCL
TFTFGHCHRN LNHFETYEAC MLACMSGPLA ACSLPALQGP CKAYAPRWAY NSQTGQCQSF VYGGCEGNGN NFESREACEE
SCPFPGRNQR CRACKPRQKL VTSFCRSDFV ILGRVSELTE EPDSGRALVT VDEVLKDEKM GLKFLGQEPL EVTLLHVDWA
CPCPNVTVSE MPLIIMGEVD GGMAMLRPDS FVGASSARRV RKLREVMHKK TCDVLKEFLG LH

SOURCE

CHO cells

APPLICATIONS

Bioassay

PURITY

95 %

STORAGE

-20°C

PROTEIN CONTENT

Content Verified by UV Spectroscopy and/or SDS-PAGE

ENDOTOXIN LEVEL

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

AUTHENTICITY

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

CROSS REACTIVITY

BIOACTIVITY

Determined by its ability to inhibit human Myostatin (GDF-8) activity in MCP-11 cells. The ED₅₀ for this effect is 0.0025-0.0040 μg/ml in the presence of 5 ng/ml of human Myostatin (GDF-8).

RESEARCH AREAS

Angiogenesis/Cardiovascular; Bone, Skeletal, Cartilage; Diabetes / Weight Regulation; Proliferation; TGF-beta Superfamily; Stem Cells & Differentiation

RECONSTITUTION

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

REFERENCES

Hill JJ, Qiu Y, Hewick RM, Wolfman NM. 2003. Mol Endocrinol. 17(6): 1144-1154. Kondás K, Szláma G, Trexler M, Patthy L. 2008. J Biol Chem. 283(35): 23677-23684.

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