

TECHNICAL DATA SHEET

Recombinant Human GDF-7 (Carrier-Free)

Catalog Number: 21-9085

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Human GDF-7 (Carrier-Free)

DESCRIPTION

GDF-7 belongs to the TGF-beta superfamily of growth and differentiation factors. It is expressed selectively by roof plate cells that are located in the developing embryonic central nervous system, and has been shown to influence the neuronal identity of cells within the central nervous system. GDF-7 has also been implicated in the formation, maintenance, and repair of certain cartilage and ligament tissues.

MOLECULAR MASS

Recombinant Human GDF-7 is a 28.0 kDa disulfide-linked homodimer containing two 129 amino acid residues.

AMINO ACID SEQUENCE

TALAGTRTAQ GSGGGAGRGH GRRGRSRCSR KPLHVDFKEL GWDDWIIAPL DYEAYHCEGL CDFPLRSHLE PTNHAIQTL LNSMAPDAAP
ASCCVPARLS PISILYIDAA NNVVYKQYED MVVEACGCR

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

Human

BIOACTIVITY

Determined by its ability to inhibit induced alkaline phosphatase production by ATDC-5 chondrogenic cells.

RESEARCH AREAS

Proliferation, TGF-Beta Superfamily, Bones, Skeletal, Cartilage

RECONSTITUTION

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

REFERENCES

Boisvert, E.M. The Specification and Maturation of Nociceptive Neurons from Human Embryonic Stem Cells. 2015. Scientific Reports; 5:16821.

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