

TECHNICAL DATA SHEET

Recombinant Mouse GDF-5/CDMP-1 (Carrier-Free)

Catalog Number: 21-9188

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Mouse GDF-5/CDMP-1 (Carrier-Free)

DESCRIPTION

GDF-5 is expressed in long bones during embryonic development and postnatally in articular cartilage. Mutations in the GDF-5 gene have been implicated in Hunter-Thompson type dwarfism and in Grebe Syndrome, which is characterized by short stature, extra digits, and short and deformed extremities.

MOLECULAR MASS

Recombinant Mouse GDF-5 is a 27.0 kDa homodimeric disulfide-linked protein consisting of two 120 amino acid polypeptide chains.

AMINO ACID SEQUENCE

APLANRQGKR PSKNLKARCS RKALHVNFKD MGWDDWIAP LEYEAHFCEG LCEFPLRSHL EPTNHAVIQT LMNSMDPEST PPTCCVPTRL SPISILFIDS
ANNVYKQYE DMVVEGCGCR

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

N/A

BIOACTIVITY

Determined by its ability to induce alkaline phosphatase production by ATDC-5 cells. The expected ED50 for this effect is 1.0-2.0 µg/ml.

RESEARCH AREAS

Stem Cells & Differentiation, TGF-Beta Superfamily

RECONSTITUTION

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

REFERENCES

Hatazawa Y, Ono Y, Hirose Y, Kanai S, Fujii NL, Machida S, Nishino I, Shimizu T, Okano M, Kamei Y, Ogawa Y. FASEB J. 2017 Nov 16. pii: fj.201700573R. doi: 10.1096/fj.201700573R. Diederichs S, Renz Y, Hagmann S, Lotz B, Seebach E, Richter W. J Biomed Mater Res B Appl Biomater. 2017 Oct 25. doi: 10.1002/jbm.b.34027.

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