

TECHNICAL DATA SHEET

Recombinant Human FGF-16 (Carrier-Free)

Catalog Number: 21-9030

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION

CONTENTS

Recombinant Human FGF-16 (Carrier-Free)

DESCRIPTION

FGF-16 is a heparin binding growth factor that is a member of the FGF family. Proteins of this family play a central role during prenatal development, postnatal growth and regeneration of a variety of tissues, by promoting cellular proliferation and differentiation. FGF-16 signals through FGFR 2c and 3c. FGF-16 plays a role in the development of the central nervous system.

MOLECULAR MASS

Recombinant Human FGF-16 is a 23.6 kDa protein consisting of 206 amino acid residues.

AMINO ACID SEQUENCE

AEVGGVFASL DWDLHGFSSS LGNVPLADSP GFLNERLGQI EGKLQRGSPT DFAHLKGILR RRQLYCRTGF HLEIFPNGTV HGTRHDHSRF GILEFISLAV
 GLISIRGVDS GLYLG MNERG ELYGSKLTR ECVFREQFEE NWNNTYASTL YKHSDSERQY YVALNKD GSP REGYRTRKHQ KFTHFLPRPV
 DPSKLPMSR DLFHYR

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

The ED50 as determined by the dose-dependent stimulation of thymidine uptake by BaF3 cells expressing FGF-receptors is ≤ 0.5 ng/ml, corresponding to a specific activity of ≥ 2 x 10⁶ units/mg.

RESEARCH AREAS

Proliferation, Stem Cells & Differentiation, Angiogenesis/Cardiovascular, FGF Superfamily

RECONSTITUTION

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

REFERENCES

Zhang, X. Receptor specificity of the fibroblast growth factor family. The complete mammalian FGF family. 2006. The Journal of Biological Chemistry; 281 (23):15694-700. Steinberg, F. The FGFR1 receptor is shed from cell membranes, binds fibroblast growth factors (FGFs), and antagonizes FGF signaling in Xenopus embryos. 2010. The Journal of Biological Chemistry; 285(3):2193-202.

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