

TECHNICAL DATA SHEET

Recombinant Human FGFR1a (IIIc) Fc (Carrier-free)

Catalog Number: 21-7104

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Human FGFR1a (IIIc) Fc (Carrier-free)

DESCRIPTION

The Fibroblast Growth Factor Receptor (FGFR) family is made up of four known closely related receptor tyrosine kinases, FGFR1 through 4. For FGFR1 through 3, alternative splicing results in numerous variants. One common splicing event results in the extracellular domain having all 3 immunoglobulin-like domains (alpha isoform) or only the II and III Ig domains (beta isoform). Additional variation in the IgIII domain allows for expression as IIIb or IIIc, again due to alternative splicing. Ligand binding results in dimerization and autophosphorylation of specific tyrosine residues. Variants may exhibit different ligand binding properties. FGFR1 predominantly binds the FGF-acidic and FGF-basic proteins.

MOLECULAR MASS

Recombinant Human FGFR1a (IIIc) migrates between 100-110 kDa on SDS-PAGE gel under reducing conditions. It contains 586 amino acids and is a 65.2 kDa protein.

AMINO ACID SEQUENCE

(Monomer) RPSPTLPEQA QPWGAPVEVE SFLVHPGDLL QLRCLRDDV QSINWLRDGV QLAESNRTRI TGEEVEVQDS VPADSGLYAC VTSSPSGSDT TYFSVNVSDA LPSSDDDDDD DDSSSEEKET DNTKPNPVAP YWTSPEKMEK KLHAVPAAKT VKFKCPSSGT PNPTLRWLKN SKEFKPDHRI GGYKVRYATW SIIMDSVVPS DKGNYTCIVE NEYGSINHTY QLDVVERSHP RPILQAGLPA NKTVALGSNV EFMCKVYSDP QPHIQWLKHI EVNGSKIGPD NLPYVQILKT AGVNTTDKEM EVLHLRNVSF EDAGEYTCLA GNSIGLSHHS AWLTVLEALE ERPAVMTSPL YLEGGPKSCD KTHTCPPCPA PELLGGPSVF LFPPKPKDTL MISRTPEVTC VVVDVSHEDP EVKFNWYVDG VEVHNAKTKP REEQYNSTYR VVSVLTVLHQ DWLNGKEYKC KVSNAKALPAP IEKTISKAKG QPREPQVYTL PPSRDELTKN QVSLTCLVKG FYPSDIAVEW ESNGQPENNY KTTPLVLDSD GSFFLYSKLT VDKSRWQQGN VFSCSVMHEA LHNHYTQKSL SLSPGK

SOURCE

CHO cells

APPLICATIONS

Bioassay

PURITY

95 %

STORAGE

-20°C

PROTEIN CONTENT

Verified by UV Spectroscopy and/or SDS-PAGE gel.

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

Mouse

BIOACTIVITY

Assay #1: The expected ED₅₀, 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 10⁶units/mg. **Assay #2:** The expected ED₅₀, determined by a cell proliferation assay using Balb/c 3T3 cells, is ≤ 0.1 ng/ml, corresponding to a specific activity of ≥ 1 x 10⁷units/mg.

RESEARCH AREAS

Angiogenesis & Cardiovascular, Cancer, Differentiation, FGF Superfamily, Inflammation, Neurobiology, Stem Cells, Wound Healing

RECONSTITUTION

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

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