

TECHNICAL DATA SHEET

Recombinant Human EGF (Carrier-free)

Catalog Number: 21-8356

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Human EGF (Carrier-free)

DESCRIPTION

Epidermal growth factor, EGF, is the founding member of the EGF family of proteins. By binding to its receptor epidermal growth factor receptor, EGFR, it stimulates cell growth, proliferation, and differentiation. It is known to be a potent mitogenic factor for cultured cells of ectodermal and mesodermal origin. EGF is involved in wound healing and is known to inhibit gastric secretion.

MOLECULAR MASS

Recombinant Human EGF is a 6.2 kDa protein composed of 53 amino acid residues.

AMINO ACID SEQUENCE

NSDSECLSH DGYCLHDGVC MYIEALDKYA CNCVVG YIGE RCQYRDLKWW ELR

SOURCE

E. Coli

APPLICATIONS

Bioassay

PURITY

98 %

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

Cow, Hamster, Monkey, Mouse, Pig, Rabbit, Rat

BIOACTIVITY

The ED₅₀ was determined by a cell proliferation assay using balb/c 3T3 cells is ≤0.1 ng/ml, corresponding to a specific activity of ≥1 x 10⁷ units/mg.

RESEARCH AREAS

Angiogenesis/Cardiovascular; Cancer; Cell Culture; Inflammation; Neurobiology; Proliferation; Stem Cells & Differentiation; Wound Healing

RECONSTITUTION

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

REFERENCES

Harris RC, Chung E and Coffey RJ 2003 Exp Cell Res 284(1): 2–13. Herbst RS 2004 Int J Radiat Oncol Biol Phys 59(2 Suppl): 21–6.

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