

TECHNICAL DATA SHEET

## Recombinant Mouse EGF (Carrier-free)

Catalog Number: 21-8357

### RPx-Pro™ Recombinant Protein

#### PRODUCT INFORMATION

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Recombinant Mouse EGF (Carrier-free)

#### DESCRIPTION

Epidermal growth factor, EGF, through binding to its receptor EGFR stimulates cell growth, proliferation and differentiation. EGF can be found in many cells including mammary gland cells, macrophages, gut epithelial cells as well as in the nervous system and kidney. As a potent mitogen, EGF can induce proliferation of several tissue types in cell culture.

#### MOLECULAR MASS

Recombinant Mouse EGF is a 6.0 kDa globular protein composed of 53 amino acid residues.

#### AMINO ACID SEQUENCE

NSYPGCPSSY DGYCLNGGVC MHIESLDSYT CNCVIGYSGD RCQTRDLRWW 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

Human

#### BIOACTIVITY

The ED<sub>50</sub> 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 10<sup>7</sup> 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

Carpenter G and Cohen S 1990 J Biol Chem 265(14): 7709–12. 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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