

TECHNICAL DATA SHEET

Recombinant Human Epiregulin (Carrier-free)

Catalog Number: 21-7046

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Human Epiregulin (Carrier-free)

DESCRIPTION

Epiregulin is a member of the epidermal growth factor family that is expressed by peripheral blood leukocytes. It stimulates the proliferation of keratinocytes, hepatocytes, fibroblasts and vascular smooth muscle cells. Epiregulin exerts its effects through binding to the epidermal growth factor receptor and other members of the ERBB family of receptors.

MOLECULAR MASS

Recombinant human Epiregulin is a 5.6 kDa monomeric protein, containing 50 amino residues, which corresponds to the mature secreted Epiregulin sequence.

AMINO ACID SEQUENCE

MVAQVSITKC SSDMNGYCLH GQCIYLVDMSS QNYCRCEVGY TGVRCEHFFL

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

Mouse

BIOACTIVITY

The ED₅₀ was determined by the dose-dependent stimulation of the proliferation of murine Balb/3T3 cells is ≤ 2.0 ng/ml, corresponding to a specific activity of ≥ 5 x 10⁵ units/mg.

RESEARCH AREAS

Cancer

RECONSTITUTION

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

REFERENCES

Taylor DS, Cheng X, Pawlowski JE, Wallace AR, Ferrer P, Molloy CJ. 1999. Proc Natl Acad Sci U S A. 96(4): 1633-8. Shirasawa S, Sugiyama S, Baba I, Inokuchi J, Sekine S, Ogino K, Kawamura Y, Dohi T, Fujimoto M, Sasazuki T. 2004. Proc Natl Acad Sci U S A. 101(38): 13921-13926.

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