

TECHNICAL DATA SHEET

Recombinant Mouse Betacellulin (Carrier-free)

Catalog Number: 21-7171

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION

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Recombinant Mouse Betacellulin (Carrier-free)

DESCRIPTION

Mouse betacellulin belongs to the EGF family of proteins and is produced in many tissues including the liver, kidney, small intestine and some tumor cells. The mature peptide is proteolytically cleaved from a larger membrane-anchored precursor. Betacellulin binds to the EGRF/ErbB receptor tyrosine kinases and plays a key role in cell growth and differentiation.

MOLECULAR MASS

Recombinant Mouse Betacellulin consists of 80 amino acids comprising the mature EGF-homologous portion of the Betacellulin protein. It is a 9.0 kDa monomeric protein.

AMINO ACID SEQUENCE

DGNTRTRPET NGLSLCGAPGE NCTGTTPRQK VKTHFSRCPK QYKHYCIHGR CRFVVDQTP SCICEKGYFG ARCERVDLFY

SOURCE

E. coli

APPLICATIONS

Bioassay

PURITY

98 %

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 (<1 EU/μg).

AUTHENTICITY

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

CROSS REACTIVITY

BIOACTIVITY

The ED₅₀, determined by the dose-dependent stimulation of the proliferation of murine Balb/3T3 cells, is ≤ 0.01 ng/ml. This corresponds to a specific activity of ≥ 1 x 10⁸ units/mg.

RESEARCH AREAS

Cancer

RECONSTITUTION

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

REFERENCES

Aleman-Muench GR and Soldevila G. 2012. Immunol Cell Biol. 90(2): 137-48. Seno M, Tada H, Kosaka M, Sasada R, Igarashi K, Shing Y, Folkman J, Ueda M and Yamada H. 1996. Growth Factors. 13(3-4): 181-91. Shing Y, Christofori G, Hanahan D, Ono Y, Sasada R, Igarashi K and Folkman J. 1993. Science. 259(5101): 1604-1607.

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