

TECHNICAL DATA SHEET

Recombinant Human Betacellulin (Carrier-free)

Catalog Number: 21-7000

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

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Recombinant Human Betacellulin (Carrier-free)

DESCRIPTION

Human betacellulin belongs to the EGF family of proteins and is produced in many tissues including the liver, kidney, small intestine and some tumor cells. Betacellulin binds to the EGRF/ErbB receptor tyrosine kinases and plays a key role in cell growth and differentiation.

MOLECULAR MASS

Recombinant human Betacellulin is a 9.0 kDa monomeric protein, containing 80 amino acid residues, which comprises the mature EGF-homologous portion of the Betacellulin protein.

AMINO ACID SEQUENCE

DGNSTRSPET NGLLCGDPEE NCAATTTQSK RKGHFSRCPK QYKHYCIKGR CRFVVAEQTP SCVCDEGYIG ARCERVDLFY

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 ≤ 0.05 ng/ml, corresponding to a specific activity of ≥ 2 x 10⁷ 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.

Citations are provided as a resource for additional applications that have not been validated by Tonbo Biosciences. Please choose the appropriate format for each application and consult Materials and Methods sections for additional details about the use of any product in these publications.

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