

TECHNICAL DATA SHEET

Recombinant Human Prokineticin-2 (Carrier-Free)

Catalog Number: 21-9042

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

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Recombinant Human Prokineticin-2 (Carrier-Free)

DESCRIPTION

Prokineticin-2 (PK2) is a cysteine-rich secreted protein that is expressed in the testis and, in lower levels, in the small intestine. PK2 regulates various biological functions, including gastrointestinal motility, angiogenesis and circadian rhythms. It is closely related to EG-VEGF (Prokineticin-1), and binds to two orphan B-protein-coupled receptors termed PK-R1 and PK-R2.

MOLECULAR MASS

Recombinant Human Prokineticin-2 is an 8.8 kDa protein consisting of 81 amino acid residues, including ten cysteine residues that can potentially form five pairs of intra-molecular disulfide bonds.

AMINO ACID SEQUENCE

AVITGACDKD SQCGGGMCCA VSIWVKSIRI CTPMGKLGDS CHPLTRKVPF FGRRMHHTCP CLPGLACLRT SFNRFICLAQ K

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 (<1EU/µg).

AUTHENTICITY

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

CROSS REACTIVITY

Human, Mouse, Rat

BIOACTIVITY

Data not available at this time.

RESEARCH AREAS

Angiogenesis/Cardiovascular

RECONSTITUTION

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

REFERENCES

Gardiner, J.V. Prokineticin 2 is a hypothalamic neuropeptide which potently inhibits food intake. 2009. Diabetes. Shojaei, F. G-CSF-initiated myeloid cell mobilization and angiogenesis mediate tumor refractoriness to anti-VEGF therapy in mouse models. 2009. Proceedings of the National Academy of Sciences of the USA; 106(16):6742-7.

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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