TECHNICAL DATA SHEET

Recombinant Human EG-VEGF (Carrier-free)

Catalog Number: 21-7179

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

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Recombinant Human EG-VEGF (Carrier-free)

DESCRIPTION

EG-VEGF, also known as prokineticin-1, is a member of the AVIT (prokineticin) family known to strongly contract gastrointestinal (GI) smooth muscle. EG-VEGF is a secreted angiogenetic mitogen growth factor that induces proliferation, migration, and fenestration in capillary endothelial cells derived from endocrine glands. The steroidogenic glands (ovary, testis, adrenal gland, and placenta) express EG-VEGF and expression is known to be induced by hypoxia. EG-VEGF and VEGF may function in a coordinated manner as their expression is often complementary. EG-VEFG is associated with certain cancers and is known to promote neuroblastoma progression. The human EG-VEGF gene codes for a 105 amino acid polypeptide containing an N-terminal signal sequence of 19 amino acids.

MOLECULAR MASS

Recombinant Human EG-VEGF is a 9.6 kDa protein consisting of 86 amino acid residues, including ten cysteine residues that potentially form five pairs of intra-molecular disulfide bonds.

AMINO ACID SEQUENCE

AVITGACERD VQCGAGTCCA ISLWLRGLRM CTPLGREGEE CHPGSHKVPF FRKRKHHTCP CLPNLLCSRF PDGRYRCSMD LKNINF

SOURCE	APPLICATIONS	PURITY	STORAGE
E.coli	Bioassay	98 %	-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

BIOACTIVITY

Data not available at this time.

RESEARCH AREAS

Angiogenesis & Cardiovascular, Proliferation

RECONSTITUTION

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

REFERENCES

Cook IH, Evans J, Maldonado-Pérez D, Critchley HO, Sales KJ and Jabbour HN. 2010. Mol Hum Reprod. 16(3):158-69. Ngan ES, Sit FY, Lee K, Miao X, Yuan Z, Wang W, Nicholls JM, Wong KK, Garcia-Barcelo M, Lui VC and Tam PK. 2007. Clin Cancer. Res. 13(3):868-75.Denison FC, Battersby S, King AE, Szuber M and Jabbour HN. 2008. Endocrinology. 149(7):3470-7.Waddell JM, Evans J, Jabbour HN and Denison FC. 2011. Hum Reprod. 26(1):67-75. Gorowiec MR, Catalano RD, Norman JE, Denison FC and Jabbour HN. 2011. Am J Pathol. 179(6):2709-19.