

## TECHNICAL DATA SHEET

# Recombinant Mouse EG-VEGF (Carrier-free)

Catalog Number: 21-7180

## RPx-Pro™ Recombinant Protein

### PRODUCT INFORMATION

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Recombinant Mouse 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. The murine EG-VEGF gene codes for a 105 amino acid polypeptide containing an N-terminal signal sequence of 19 amino acids.

#### MOLECULAR MASS

Recombinant Mouse 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 IQCGAGTCCA ISLWLRGLRL CTPLGREGEE CHPGSHKIPF LRKRQHHTCP CSPSLLCSRFPDGRYRCFRD LKNANF

#### 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

N/A

#### BIOACTIVITY

Data Not Available.

#### RESEARCH AREAS

Angiogenesis & Cardiovascular, Proliferation

#### RECONSTITUTION

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

#### REFERENCES

Sergent F, Hoffmann P, Brouillet S1 Garnier V, Salomon A, Murthi P, Benharouga M, Feige JJ and Alfaidy N. 2016. Hypertension. 68(1):148-56. Massena S, Christoffersson G, Vågesjö E, Seigneux C, Gustafsson K, Binet F, Herrera Hidalgo C, Giraud A, Lomei J, Weström S, Shibuya M, Claesson-Welsh L, Gerwins P, Welsh M, Kreuger J and Phillipson M. 2015. Blood. 126(17):2016-26.

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