DATASHEET
Version 20181206

VEGF-D, Human

Cat. No.: Z03125-50

Size: 50.0 ug

Synonyms: Vascular Endothelial Growth Factor-D, FIGF

Description:

Vascular Endothelial Growth Factor (VEGF)-D, also known as c-Fos-induced growth factor (FIGF), is a member of the PDGF/VEGF growth factor family. It is expressed highly in lung, heart and small intestine, and at lower levels in skeletal muscle, colon and pancreas. It binds to VEGFR-2 and VEGFR-3 receptors and activates downstream signals. VEGF-D is a growth factor active in angiogenesis, lymphangiogenesis and endothelial cell growth. It is involved in many developmental and physiological processes including the formation of venous and lymphatic vascular systems during embryogenesis and the maintenance of differentiated lymphatic endothelium in adults. In tumor pathology, it has been reported to play a role in restructuring of lymphatic channels and regional lymph node metastasis.

Amino Acid Sequence:

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00001 FAATFYDIET LKVIDEEWQR TQCSPRETCV EVASELGKST
00041 NTFFKPPCVN VFRCGGCCNE ESLICMNTST SYISKQLFEI
00081 SVPLTSVPEL VPVKVANHTG CKCLPTAPRH PYSIIRR
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Source: *CHO*

Species: Human

Biological Activity: ED_{50} < 1 μg /ml, measured in a cell proliferation assay using HUVEC cells.

Molecular Weight: 18-19 kDa, observed by reducing SDS-PAGE.

Formulation: Lyophilized after extensive dialysis against PBS.

Reconstitution: Reconstituted in ddH_2O or PBS at 100 μg/ml.

Purity: > 95% as analyzed by SDS-PAGE and HPLC.

Endotoxin Level: < 0.2 EU/μg, determined by LAL method.

Storage: Lyophilized recombinant Human VEGF-D remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Human VEGF-D should be stable up to 1 week at 4°C or up to 2 months at -20°C.

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