Rev. 0

ScienCell™ Research Laboratories

Recombinant Human Vascular Endothelial Growth Factor D (rhVEGF-D)

Catalog #105-23

Product Description

Recombinant Human VEGF-D is a 26.2 kDa homodimeric protein composed of two 117 amino acid polypeptide chains, without disulfide linkages. As a member of the PDGF/VEGF family, VEGF-D plays crucial roles in angiogenesis, lymphangiogenesis, and endothelial cell growth. It undergoes complex proteolytic processing, resulting in multiple forms that can bind and activate both VEGFR-2 and VEGFR-3 receptors. Structurally and functionally similar to VEGF-C, VEGF-D stimulates lymphangiogenesis and angiogenesis, promotes endothelial cell proliferation and migration, and increases blood vessel permeability. It is expressed in various adult tissues, with highest expression in fetal lungs and skin, and is particularly active in neonatal lymphatic maturation and bone growth.

Specifications

Synonyms:	VEGF-B, FIGF
AA Sequence:	FAATFYDIET LKVIDEEWQR TQCSPRETCV EVASELGKST NTFFKPPCVN VFRCGGCCNE ESLICMNTST SYISKQLFEI SVPLTSVPEL VPVKVANHTG CKCLPTAPRH PYSIIRR
Source:	*Picha pastoris*
Purity	> 95%
Physical Appearance:	White lyophilized powder.
Endotoxin:	<0.1 ng/μg of protein (<1 EU/μg)

Formulation

Lyophilized from a 0.2μm filtered concentrated (1mg/ml) solution in 1x PBS with dextran as protectant.

Reconstitution

Reconstitute in sterile distilled water or 1x PBS containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL.

Shipping and Storage

Gel pack. Upon receipt, store at -20°C after receiving. Upon reconstitution, store at 2-8°C for up to one week. For maximal stability, aliquot and store at -20°C. Avoid repeated freeze/ thaw cycles.

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Usage

rhVEGF-D is for research use only. It is not approved for human or animal use, or for application in clinical or *in vitro* diagnostic procedures.