Data Sheet (Cat.No.TMPY-01008U)

TargetMol

VEGFD Protein, Human, Recombinant (aa 89-205, His)

General Information

Synonyms:	VEGFD;VEGF-D;c-fos induced growth factor (vascular endothelial growth factor D)
Protein Construction:	Phe89-Arg205
Species:	Human
Expression Host:	HEK293 Cells
Accession:	O43915
Molecular Weight:	14.72 kDa (Predicted); 23-43 kDa (Due to glycosylation)

QC Testing

Biological Activity:	Immobilized Human VEGF R3, hFc Tag at 2 μg/ml (100 μl/well) on the plate. Dose response curve for Human VEGF-D, His Tag with the EC50 of 2.06 μg/ml determined by ELISA (QC Test).
Purity:	> 95% as determined by Bis-Tris PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Vascular endothelial growth factor-D (VEGF-D) is a secreted glycoprotein that can activate VEGF receptors on the endothelium, is a mitogen for endothelial cells and promotes the growth and remodeling of blood vessels and lymphatic vessels. VEGF-D, as with other members of the VEGF family, falls within a structural superfamily of growth factors containing a cystine knot motif, which involves a highly distinctive clustered arrangement of three intrasubunit cystine bridges.

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