

Recombinant Human VEGFD Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51049

Size: 10ug, 100ug

Protein Name: Vascular endothelial growth factor D (VEGF-D) (c-Fos-induced growth factor) (FIGF)

Synonym: VEGFD, FIGF

UniProt ID: O43915

UniProt Link: www.uniprot.org/uniprotkb/O43915/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 354 AA

Molecular Weight: 40 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MYREWVVNVFMMLYVQLVQGSSNEHGPKVRSSQSTLERSEQQIRAASSLEELLRITHSEDWKLW
RCRLRLKSFTSMDSRASHRSTRFAATFYDIETLKVIDEEWQRTQCSPRETCVEVASELGKSTNTFF
KPPCVNVFRCGGCCNEESLICMNTSTSYISKQLFEISVPLTSVPELVPVKVANHTGCKCLPTAPRHPY
SIIRRSIQIPEEDRCSHKKLCPIDMLWDSNKCKCVLQEENPLAGTEDHSHLQEPALCGPHMMFDED
RCECVCKTPCPKDLIQHPKNCSCFECKESLETCCQKHKLFPDTCSCEDRCPFHTRPCASGKTACA
KHCRFPKEKRAAQGPHSRKNP

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Vascular endothelial growth factor D (VEGF-D) (c-Fos-induced growth factor) (FIGF) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Growth factor active in angiogenesis, lymphangiogenesis and endothelial cell growth, stimulating their proliferation and migration and also has effects on the permeability of blood vessels. May function in the formation of the venous and lymphatic vascular systems during embryogenesis, and also in the maintenance of differentiated lymphatic endothelium in adults. Binds and activates VEGFR-2 (KDR/FLK1) and VEGFR-3 (FLT4) receptors.

Subcellular Localization: Secreted.

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.