

Recombinant Mouse VEGFB Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51451

Size: 10ug, 100ug

Protein Name: Vascular endothelial growth factor B (VEGF-B) (VEGF-related factor) (VRF)

Synonym: Vegfb, Vrf

UniProt ID: P49766

UniProt Link: www.uniprot.org/uniprotkb/P49766/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 207 AA

Molecular Weight: 22 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MSPLLRRLLLVALLQLARTQAPVSQFDGPSHQKKVVPWIDVYARATCQPREVVVPLSMELMGNVVK
QLVPSCVTVQRCGGCCPDDGLECVPTGQHQVRMQILMIQYPSSQLGEMSLEEHSQCECRPKKKES
AVKPD RVAIPHHRPQPRSVPGWDSTPGASSPADIIHPTAPGSSARLAPSAVNALTPGPAAAAADAA
ASSIAKGGA

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 B (VEGF-B) (VEGF-related factor) (VRF) 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 for endothelial cells. VEGF-B167 binds heparin and neuropilin-1 whereas the binding to neuropilin-1 of VEGF-B186 is regulated by proteolysis. VEGF-B seems to be required for normal heart function in adult but is not required for proper development of the cardiovascular system either during development or for angiogenesis in adults.

Subcellular Localization: Secreted. Note=Secreted but remains associated to cells or to the extracellular matrix unless released by heparin.

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.