

Recombinant Human NRP2 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50741

Size: 10ug, 100ug

Protein Name: Neuropilin-2 (Vascular endothelial cell growth factor 165 receptor 2)

Synonym: NRP2, VEGF165R2

UniProt ID: O60462

UniProt Link: www.uniprot.org/uniprotkb/O60462/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 931 AA

Molecular Weight: 105 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MDMFPLTWVFLALYFSRHQVRGQPDPPCGGRLNSKDAGYITSPGY PQDYPSHQNCEWIVYAPEPN
QKIVLNFNPHFEIEKHDCKYDFIEIRDGDSEADLLGKHCGNIAPPTIISGSM LYIKFTSDYARQGAGF
SLRYEIFKTGSEDCSKNFTSPNGTIESPGFPEKYPHNLDCTFTILAKPKMEIILQFLIFDLEHDP LQVGE
GDCKYDWLDIWDGIPHVGPLIGKYCGTKTPSELRSSTGILSLTFHTDMAVAKDGF SARYYLVHQEPL
ENFQCNVPLGMESGRIANEQISASSTYSDGRWTPQQSRLHGDDNGWTPNLDSNKEYLQVDLRFLT
MLTAIATQGAISRETQNGYYVKS YKLEVSTNGEDWMVYRHGKNHKV FQANNDATEVVLNKLHAPLL
TRFVRIRPQTWHSGIALRLELFGCRVTDAPCSNMLGMLSGLIADSQISASSTQEYLWSPSAARLVSS
RSGWFPRIQAQPGEEWLQVDLGTPKTVKGVIIQGARGGDSITAVEARAFVRKFKVSYSLNGKDWE
YIQDPRTQQPKLFEGNMHYDTPDIRRFDPIPAQYVRVYPERWSPAGIGMRLEVLGCDWTD SKPTVE
TLGPTVKSEETTPYPTEEEEATECGENC SFEDDKDLQLPSGFNCNFD FLEPCGW MYDHAKWLRTT
WASSSSPNDRTFPDDRNLRLQSDSQREGQYARLISPPVHLPRSPVCM EFQYQATGGRGVALQVV
REASQESKLLWVIREDDQGGGEWKHGRILPSYDMEYQIVFEGVIGKGRSGEIAIDDIRISTDVPLENCME
PISAFAGENFKVDIPEIHEREGYEDEIDDEYEVDWSNSSSATSGSGAPSTDKEKSWLYTLDPILITIAM
SSLGVLLGATCAGLLLYCTCSYSGLSRSSCTTLENYNFELYDGLKHKVKMNHQKCCSEA

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 Neuropilin-2 (Vascular endothelial cell growth factor 165 receptor 2) 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: High affinity receptor for semaphorins 3C, 3F, VEGF-165 and VEGF-145 isoforms of VEGF, and the PLGF-2 isoform of PGF.; (Microbial infection) Acts as a receptor for human cytomegalovirus pentamer-dependent entry in epithelial and endothelial cells.

Subcellular Localization: Membrane ; Single-pass type I membrane protein .; [Isoform s9]: 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.