

Product Information

MemDX™ Membrane Protein Human KDR (Kinase insert domain receptor) Full Length

Cat. No.: **MPC1689K**

This product is for research use only and is not intended for diagnostic use.

This product is a 151.5 kDa Human KDR membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

KDR

Protein Length

Full length

Protein Class

Transferase

Molecular Weight

151.5 kDa

TMD

1

Sequence

MQSKVLLAVALWLCVETRAASVGLPSVSLDLPRLSIQKDILTIKANTTLQ
ITCRGQRDLDWLPNNQSGSEQRVEVTECSDGLFCKLTIPKVIGNDTGA
YKCFYRETDLASVIYVYVQDYRSPFIASVSDQHGVVYITENKNKTVVIPC
LGSISNLNVSLCARYPEKRFVPDGNRISWDSKKGFTIPSYMISYAGMVFC
EAKINDESYQSIMYIVVVVGYRIYDVVLSPSHGIELSVGEKLVNCTART
ELNVGIDFNWEYPSSKHQHKLVNRDLKTQSGSEMKKFLSTLTIDGVTRS
DQGLYTCAASSGLMTKKNSTFVRVHEKPFVAFGSGMESLVEATVGERVRI
PAKYLGYPPPEIKWYKNGIPLESNHTIKAGHVLTIMEVSEKDTGNYTVIL
TNPISKEKQSHVSVLVVYVPPQIGEKSLISPVDYQYGTQTCTVYAI
PPPHHHHWYWQLEEECANEPSQAVSVTNYPCEEWRSEDFQGGNKIEVN
KNQFALIEGKNKTVSTLVIQAANVSALYKCEAVNKVGRGERVISFHVTRG
PEITLQPDMEQESVSLWCTADRSTFENLTWYKLGQPLPIHVGELPT
PVCKNLDTLWKLNATMFSNSTNDILIMELKNASLQDQGDYVCLAQDRKTK
KRHCVVRQLTVLERVAPTITGNLENQTTSIGESIEVSCTASGNPPQIMW
FKDNETLVEDSGIVLKDGNRNLTIKRVKEDGLYTCQACSVLGCAKVEA
FFIIEGAQEKTNLEIILVGTAVIAMFFWLLLVIILRTVKRANGGELKTG
YLSIVMDPDELPLDEHCLPYDASKWEFPRDRLKLGKPLGRGAFGQVIE
ADAFGIDKTATCRTVAVKMLKEGATHSEHRALMSELKILIHGHLNVVN
LLGACTKPGGPLMVIVEFCKFGNLSTYLRSKRNEFVYPYTKGARFRQKGD
YVGAIPVDLKRRLDSITSSQSSASSGFVEEKSLSDVEEEEAPEDLYKDFL
TLEHLICYSFQVAKGMEFLASRCKIHRDLAARNILLSEKNVVKICDFGLA

RDIYKDPDYVRKGDARLPLKWMAPETIFDRVYTIQSDVWSFGVLLWEIFS
LGASPYPGVKIDEEFCRRLKEGTRMRAPDYTTPEMYQTMLDCWHGEPsQR
PTFSELVEHLGNLLQANAQQDGKDYIVLPISETLSMEEDSGLSLPTSPVS
CMEEEEVCDPKFHYDNTAGISQYLQNSKRKSRPVSVKTFEDIPLEEPEVK
VIPDDNQTDSGMVLASEELKTLEDRTKLSPSFGGMVPSKSRESVASEGSN
QTSGYQSGYHSDDTDTTVYSSEEAECLKLIEIGVQTGSTAQILQPDSGTT
LSSPPV

Product Description

Expression Systems

HEK293

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

KDR

Full Name

Kinase insert domain receptor

Introduction

Vascular endothelial growth factor (VEGF) is a major growth factor for endothelial cells. This gene encodes one of the two receptors of the VEGF. This receptor, known as kinase insert domain receptor, is a type III receptor tyrosine kinase. It functions as the main mediator of VEGF-induced endothelial proliferation, survival, migration, tubular morphogenesis and sprouting. The signalling and trafficking of this receptor are regulated by multiple factors, including Rab GTPase, P2Y purine nucleotide receptor, integrin α V β 3, T-cell protein tyrosine phosphatase, etc. Mutations of this gene are implicated in infantile capillary hemangiomas.

Alternative Names

KDR; FLK1; CD309; VEGFR; VEGFR2; vascular endothelial growth factor receptor 2; fetal liver kinase-1; kinase insert domain receptor (a type III receptor tyrosine kinase); protein-tyrosine kinase receptor Flk-1; soluble VEGFR2; tyrosine kinase growth factor receptor; Kinase insert domain receptor

Gene ID

[3791](#)

UniProt ID

[P35968](#)