VEGF-R1/FLT-1 Human HEK293

Product Data Sheet

Type: Recombinant
Source: HEK293
Species: Human
Other names: Vascular Endothelial Growth Factor Receptor 1, Fms-like tyrosine kinase 1, VEGFR-1, Fms-like tyrosine kinase 1, FLT-1, Tyrosine-protein kinase FRT, Tyrosine-protein kinase receptor FLT, FLT, Vascular permeability factor receptor, FLT1, FRT, VEGFR1

Cat. No.:
RD172420100 (0.1 mg)

Description

Total 675 AA. MW: 76.6 kDa (calculated). UniProtKB acc. No. P17948 (isoform 2, Ser27-His687). N-terminal linker (2 extra AA), C-terminal linker (2 extra AA) and C-terminal His-tag (10 extra AA).

Introduction to the Molecule

VEGFR1, also known as FMS-related tyrosine kinase 1(FLT1). Oncogene FLT belongs to the src gene family and is related to oncogene ROS . Like other members of this family, it shows tyrosine protein kinase activity that is important for the control of cell proliferation and differentiation. FLT is mapped to 13q12. VEGF receptor 1 signaling is essential for osteoclast development and bone marrow formation in colony-stimulating factor 1-deficient mice. The standard product used in this kit is recombinant human VEGFR1, consisting of 905 amino acids with the molecular mass of 100KDa

Research topic

Cytokines and chemokines and related molecules

Amino Acid Sequence

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ASSKLKDPEL SLKGTQHIMQ AGQTLHLQCR GEAAHKWSLP EMVSKESERL SITKSACGRN GKQFCSTLTL NTAQANHTGF
YSCKYLAVPT SKKKETESAI YIFISDTGRP FVEMYSEIPE IIHMTEGREL VIPCRVTSPN ITVTLKKFPL DTLIPDGKRI
IWDSRKGFII SNATYKEIGL LTCEATVNGH LYKTNYLTHR QTNTIIDVQI STPRPVKLLR GHTLVLNCTA TTPLNTRVQM
TWSYPDEKNK RASVRRRIDQ SNSHANIFYS VLTIDKMQNK DKGLYTCRVR SGPSFKSVNT SVHIYDKAFI TVKHRKQQVL
ETVAGKRSYR LSMKVKAFPS PEVVWLKDGL PATEKSARYL TRGYSLIIKD VTEEDAGNYT ILLSIKQSNV FKNLTATLIV
NVKPQIYEKA VSSFPDPALY PLGSRQILTC TAYGIPQPTI KWFWHPCNHN HSEARCDFCS NNEESFILDA DSNMGNRIES
ITQRMAIIEG KNKMASTLVV ADSRISGIYI CIASNKVGTV GRNISFYITD VPNGFHVNLE KMPTEGEDLK LSCTVNKFLY
RDVTWILLRT VNNRTMHYSI SKQKMAITKE HSITLNLTIM NVSLQDSGTY ACRARNVYTG EEILQKKEIT IRGEHCNKKA
VFSRISKFKS TRNDCTTQSN VKHKLHHHHH HHHHH
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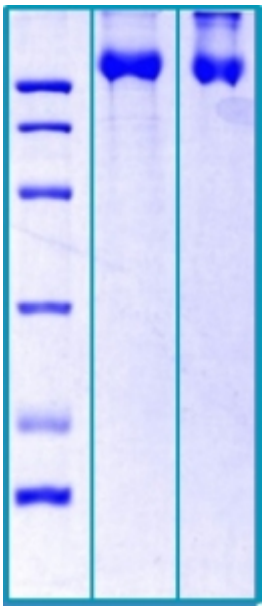
Source

HEK293

Purity

Purity as determined by densitometric image analysis: > 95 %

SDS-PAGE gel



12 % SDS-PAGE separation of Human VEGFR-1 (HEK):

1. M.W. marker - 14, 21, 31, 45, 66, 97 kDa

2. Reduced and boiled sample, 2.5 µg/lane

3. Non-reduced and non-boiled sample, 2.5 µg/lane

Endotoxin

< 1.0 EU/µg

Formulation

Filtered (0.4 µm) and frozen solution in phosphate buffered saline, 20% v/v glycerol.

Reconstitution

Defrost at room temperature. Filter sterilize your culture media/working solutions containing this non-sterile product before using in cell culture.

Shipping

On ice. Upon receipt, store the product at the temperature recommended below.

Storage, Stability/Shelf Life

Store the protein at -80 °C. The protein remains stable until the expiry date when stored at -80 °C. Avoid repeated freezing/thawing cycles. The thawed protein can be stored at 4 °C for five days.

Quality Control Test

BCA to determine quantity of the protein.
SDS-PAGE to determine purity of the protein.
LAL TEST to determine endotoxin level.

Applications

Cell culture and/or animal studies, ELISA, Western blotting

Note

This product is intended for research use only.

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