

## 32-8563: Recombinant Human VEGF Receptor 2/VEGF R2/FLK-1/KDR (C-Fc)

**Gene :** KDR  
**Gene ID :** 3791  
**Uniprot ID :** P35968

### Description

Source: Human Cells.  
MW :110.4kD.

Recombinant Human Vascular Endothelial Growth Factor Receptor 2 is produced by our Mammalian expression system and the target gene encoding Ala20-Glu764 is expressed with a Fc tag at the C-terminus. Human Vascular endothelial growth factor receptor 2(KDR, VEGFR-2) is a member of the class III subfamily of receptor tyrosine kinases (RTKs). KDR is involved in a number of fundamental biological processes such as the regulation of angiogenesis, vascular development, vascular permeability, and embryonic hematopoiesis. It also plays an essential role in promoting proliferation, survival, migration and differentiation of endothelial cells, reorganization of the actin cytoskeleton. VEGFR2 is identified as the receptor for VEGF and VEGFC and an early marker for endothelial cell progenitors, whose expression is restricted to endothelial cells in vivo. The adaptor protein SHB has been shown to interact with VEGFR2 in receptor tyrosine kinase signaling. In addition, VEGFR2 is able to interact with HIV-1 extracellular Tat protein upon VEGF activation, and seems to enhance angiogenesis in Kaposi's sarcoma lesions. VEGF R2 is thought to be the primary inducer of VEGF-mediated blood vessel growth, while VEGF R3 plays a significant role in VEGF-C and VEGF-D-mediated lymphangiogenesis.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.  
**Storage condition :** Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.  
**Amino Acid :** ASVGLPSVSLDLPRLSIQKDILTIKANTTLQITCRGQRDLWLWPNNQSGSEQRVEVTECSDFLCKTLTIPKVI  
NDTGAYKCFYRETLASVIYVYVQDYRSPFIASVSDQHGVVYITENKKNKTWVIPCGLSGISNLNVSLCARYPEKRFV  
PDGNRISWDSKKGFTIPSYMISYAGMVCFEAKINDESYQSIMYIVVVVGYRIYDVVLSPSHGIELSVGEKLVNCT  
ARTELVGIDFNWEYPSKHKHKLVRDLKTQSGSEMKKFLSTLTIDGITRSDQGLYTCAASSGLMTKKNSTF  
VRVHEKPFVAFGSGMESLVEATVGERVRIPAKYLYGYPPEIKWYKNGIPLSNHTIKAGHVLTIMEVSRDTGNY  
TVILTNPISKEKQSHVVSLLVYVPPQIGEKSLSPVDSYQYGTQTTLCTVYAIPPPPIHHWYQLEEECANESPH  
AVSVTNPYPCEEWRSEDFQGGNKIEVNKNQFALIEGKNKTVSTLVIQAANVSALYKCEAVNKVGRGERVISFH  
VTRGPEITLQPDMPTEQESVSLWCTADRSTFENLWYKLGQPPLIHVGEPLTPVCKNLDLWKLNATMFSNS  
TNDILIMELKNASLQDQGDYVCLAQDRKTKRHCVVRQLTVLERVAPTITGNLENQTTSIGESIEVSCTASGNPP  
PQIMWFKDNETLVEDSGIVLKDGNRNLTIKRVKEDGLYTCQACSVLGCACVFAFFIIEGAQEKTNLEVDIEG  
RMDEPKCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVH  
NAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMT  
KNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVVFSCSVMHEAL  
HNHYTQKSLSLSPGK

### Application Note

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.