FLT1
Recombinant Human VEGFR1/FLT1 GST

Catalog No.	CRV021	**Quantity:**	50 µg

Alternate Names: FLT, VEGFR1, vascular endothelial growth factor receptor 1, FLT-1, VEGFR-1, fms-like tyrosine kinase 1, tyrosine-protein kinase FRT, tyrosine-protein kinase receptor FLT, vascular permeability factor receptor

Description: Human VEGF-R1, C-terminal fragment, amino acids K_{784}-I_{1338} (as in GenBank entry NM_002019)*****, activated, N-terminally fused to GSTFactor Xa cleavage site, expressed in Sf9 insect cells.
***Sequence may contain documented polymorphisms**
Detailed sequence on request

Concentration: 0.160 µg/µl

Gene ID: 2321

Protein Accession No: NM_002019

Source: Baculovirus infected Sf9 cells

Molecular Weight: Theoretical $MW_{Fusion\ Protein}$: 89,357 Da

Formulation: 50 mM Tris-HCl, pH 8.0 + 100 mM NaCl + 5 mM DTT, 20% glycerol

Purification: One-step affinity purification using GSH-agarose

Product Identity: VEGF-R1, was confirmed as VEGF-R1 by by mass spectroscopy LC-ESI-MS/MS

Activation: Incubation with 1 mM ATP, followed by $(NH_4)\ 2SO_4$ precipitation.

Specific Activity: 151 pmol/µg×min

Method for determination of K_m value and specific activity:
• Assay conditions:
60 mM HEPES-NaOH, pH 7.5
3 mM $MgCl_2$
3 mM $MnCl_2$
3 µM Na-orthovanadate
1.2 mM DTT
2.5 µg / 50 µl $PEG_{20.000}$
ATP (variable)
Substrate: $Poly(Glu:Tyr)_{4:1}$
(Sigma 20K5903), 2.0 µg / 50 µl
VEGF-R1: 100 ng / 50 µl
• Filter binding assay
MSFC membrane (Millipore)

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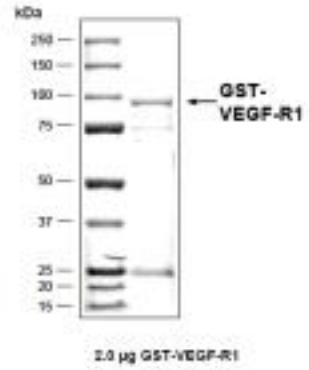
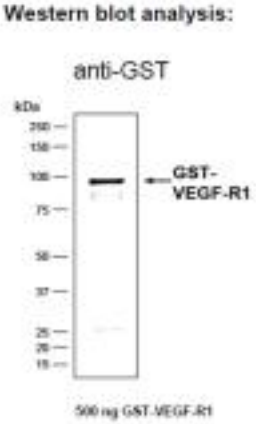
Storage & Stability: Store in working aliquots at -80°C. **Avoid repeated freeze-thaw cycles.**

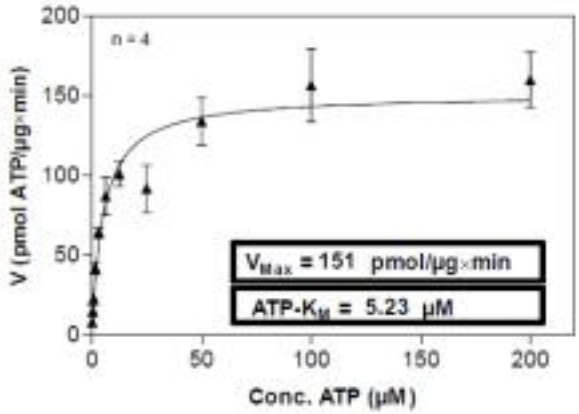
Coomassie stain:



Western blot analysis:



Determination of K_m value for ATP:



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