

Human VEGF Receptor 2 protein, His tag (active)

Cat. No. GTX00259-pro

Applications Functional Assay**Species** Human**Package**

10 µg

Applications

Application Note

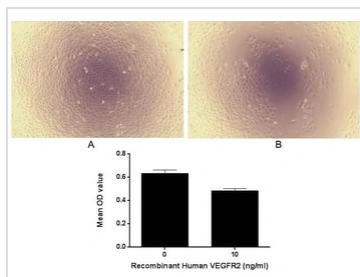
Vascular Endothelial Growth Factor Receptor 2 (VEGFR2) also known as kinase insert domain receptor acts as a cell-surface receptor for VEGFA, VEGFC and VEGFD. VEGFR2 functions as the primary mediator of vascular endothelial growth factor activation in endothelial cells. regulation of VEGFR-2 expression appears critical in mitogenesis, differentiation, and angiogenesis. To test the effect on inhibit the VEGF-dependent proliferation of endothelium cells, ECV-304 cells were seeded into triplicate wells of 96-well plates at a density of 5000 cells/well and allowed to attach, replaced with serum-free overnight, then the medium was replaced with 2% serum standard DMEM including 1µg/ml Vascular Endothelial Growth Factor C (VEGFC) and various concentrations of recombinant human VEGFR2. After incubated for 96h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10 µl of CCK-8 solution was added to each well of the plate, then the absorbance at 450nm was measured using a microplate reader after incubating the plate for 1-4 hours at 37°C. Proliferation of ECV-304 cells after incubation with VEGFR2 for 96h observed by inverted microscope.

Observed MW (kDa) 90 kDa.

Properties

Form Lyophilized powder**Buffer** Reconstitute with 10mM PBS (pH7.4) to 0.1-1.0mg/ml. Do not vortex. Lyophilized from PBS (pH7.4), 0.01% SKL, 1mM DTT, 5% Trehalose.**Preservative** ProClin 300**Storage** For short-term storage (1-2 weeks), store at 4°C. For long-term storage, store at -20°C or below. After reconstitution, keep as concentrated solution. Avoid freeze-thaw cycles.**Region/Sequence** N-terminal His-Tag; Ala20~Glu764 (NP_002244.1)**Expression System** HEK293 cells**Purity** > 97%**Endotoxin** < 1 EU/µg**Conjugation** Unconjugated**Note** For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

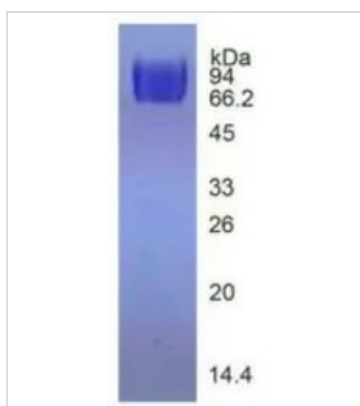
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DATA IMAGES

GTX00259-pro Functional Assay Image

The inhibition effect of GTX00259-pro Human VEGF Receptor 2 protein (active) on VEGF-dependent proliferation. Cell viability was measured by Cell Counting Kit-8 (CCK-8).

(A) Unstimulated ECV-304 cells cultured in DMEM for 96hrs.

(B) ECV-304 cells cultured in DMEM, stimulated with 10 ng/ml VEGFR2 for 96hrs.


GTX00259-pro Image

SDS-PAGE analysis of GTX00259-pro Human VEGF Receptor 2 protein (active).



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