

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.

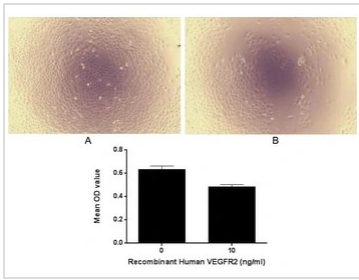
Observed MW (kDa) 90 kDa.

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.

For full product information, images and publications, please visit our [website](#).

DATA IMAGES

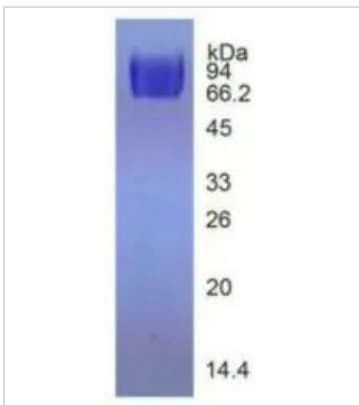


GTX00259-pro Functional Assay Image

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).



For full product information, images and publications, please visit our [website](#).