



SZABO SCANDIC

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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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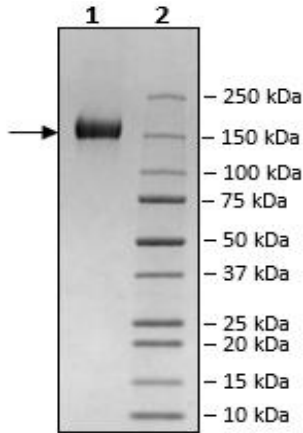
[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Product Information

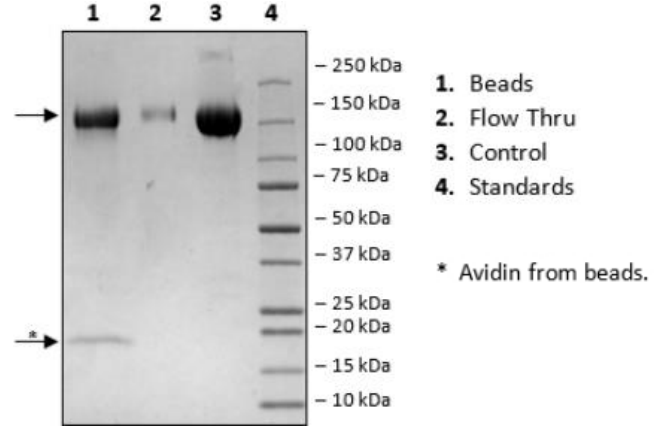
| | |
|------------------------------|--|
| Description: | Recombinant human VEGFR2 (Vascular endothelial growth factor receptor 2), also known as KDR (Kinase insert Domain receptor), encompassing amino acids 20-764(end). This construct contains a C-terminal IgG1 Fc domain, followed by an Avi-Tag™. This protein was affinity purified. |
| Background: | VEGFR2 (Vascular endothelial growth factor receptor 2), also known as KDR (Kinase insert Domain receptor), is a tyrosine kinase receptor for the growth factor VEGF. EGFR (epidermal growth factor receptor) overexpression is a common feature in many cancer types, such as breast and ovarian cancer. EGFR activation results in VEGF expression and signaling via VEGFR2, promoting angiogenesis and tumor progression. The inhibition of VEGFR2 via small molecules or antibodies, alone or in combination with inhibitors of EGFR, are promising therapeutic strategies for cancer therapy. |
| Species: | Human |
| Construct: | VEGFR2 (20-764-Fc(IgG1)-Avi)-(Biotin) |
| Concentration: | 1.37 mg/ml |
| Expression System: | HEK293 |
| Purity: | ≥90% |
| Format: | Aqueous buffer solution. |
| Formulated In: | 8 mM phosphate, pH 7.4, 110 mM NaCl, 2.2 mM KCl, and 20% glycerol |
| MW: | 112 kDa + glycans |
| Glycosylation: | This protein runs at a higher MW by SDS-PAGE due to glycosylation. |
| Genbank Accession: | NM_002253.4 |
| Label: | This protein is enzymatically biotinylated using Avi-Tag™ technology. Biotinylation is confirmed to be ≥90%. |
| Stability: | At least 6 months at -80°C. |
| Storage: | -80°C |
| Instructions for Use: | Thaw on ice and gently mix prior to use. DO NOT VORTEX. Perform a quick spin before opening. Aliquot into small volumes and flash freeze for long term storage. Avoid multiple freeze/thaw cycles. |
| Assay Conditions: | The protein was validated by measuring VEGFR2 binding to VEGF165 by ELISA. A 96-well plate was coated with VEGF165, His-Tag (Lyophilized) (Sf9-derived) Recombinant (#91001) overnight at 4°C (50 µl/well at a concentration of 2 µg/ml in PBS). The plate was washed 3 times with Immuno Buffer 1 (#79311) and blocked using 100 µl of Blocking Buffer 2 (#79728) for 1 hour at Room Temperature (RT). After removing the Blocking Buffer 2, 50 µl/well of purified VEGFR2 (KDR), Fc Fusion, Avi-Tag, Biotin-Labeled Recombinant (#102131), serially diluted in Blocking Buffer 2, was added for 1 hour at RT. After 3 more washes, the plate was incubated with Streptavidin-HRP (#79742), washed, and incubated with the Colorimetric HRP substrate. The reaction was stopped, and absorbance was read at 450 nm. The Blank value was subtracted from all values. |
| Applications: | Useful for studying the binding and neutralizing of VEGFR2 in ELISA and cellular assays. |

Quality Control Data

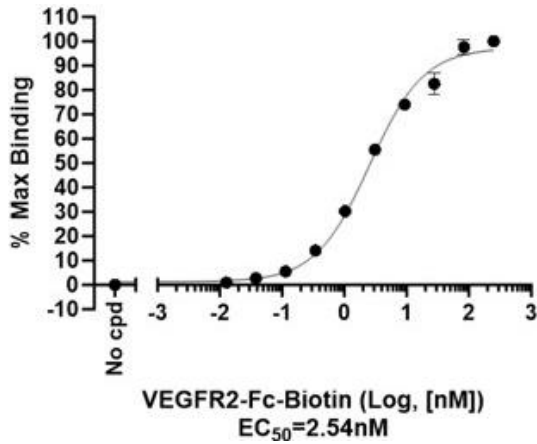
4-20% SDS-PAGE Coomassie Staining



Biotin-Avidin Pulldown



VEGF165:VEGFR2-Fc-Biotin Binding Assay



VEGF165:VEGFR2-Fc-Biotin Neutralizing Assay

