

## Recombinant Canine VEGFA Protein, None-tagged, Alexa Fluor 488 conjugated

**Cat. No.** VEGFA-302CAF488    **Lot. No.** (See product label)

### SPECIFICATION

|                                     |                                                                                                                                                                                                                                       |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>             | Alexa Fluor 488 conjugated recombinant Canine VEGFA (NP_001103972.1) (Met1-Arg190), fused with None, was produced in Human Cells.                                                                                                     |
| <b>Species</b>                      | Dog                                                                                                                                                                                                                                   |
| <b>Source</b>                       | HEK293                                                                                                                                                                                                                                |
| <b>ProteinLength</b>                | 64                                                                                                                                                                                                                                    |
| <b>Form</b>                         | Lyophilized                                                                                                                                                                                                                           |
| <b>Molecular Mass</b>               | The recombinant canine VEGFA comprises 164 amino acids and has a predicted molecular mass of 19.1 kDa. The apparent molecular mass of the protein is approximately 23 kDa in SDS-PAGE under reducing conditions due to glycosylation. |
| <b>N-terminal Sequence Analysis</b> | Ala 27                                                                                                                                                                                                                                |
| <b>Endotoxin</b>                    | < 1.0 EU/ µg of the protein as determined by the LAL method.                                                                                                                                                                          |
| <b>Purity</b>                       | > 95 % as determined by SDS-PAGE                                                                                                                                                                                                      |
| <b>Characteristic</b>               | Disulfide-linked homodimer<br>Labeled with Alexa Fluor 488 via amines                                                                                                                                                                 |

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|                       |                                                                                                                                                                           |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       | Excitation Wavelength: 488 nm<br>Emission Wavelength: 515-545 nm                                                                                                          |
| <b>Stability</b>      | Samples are stable for up to 12 months from date of receipt at -70 centigrade.                                                                                            |
| <b>Storage</b>        | Store it under sterile conditions at -20 to -70 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.       |
| <b>Storage Buffer</b> | Lyophilized from sterile PBS, pH 7.4. Normally 5%-8% trehalose and mannitol are added as protectants before lyophilization.                                               |
| <b>Reconstitution</b> | It is recommended that sterile water be added to the vial to prepare a stock solution. Centrifuge the vial at 4 centigrade before opening to recover the entire contents. |
| <b>Conjugation</b>    | Alexa Fluor 488                                                                                                                                                           |

## GENE INFORMATION

|                        |                                                                             |
|------------------------|-----------------------------------------------------------------------------|
| <b>Gene Name</b>       | VEGFA vascular endothelial growth factor A [ Canis lupus familiaris (dog) ] |
| <b>Official Symbol</b> | VEGFA                                                                       |
| <b>Gene ID</b>         | 403802                                                                      |
| <b>mRNA Refseq</b>     | NM_001003175                                                                |
| <b>Protein Refseq</b>  | NP_001003175                                                                |
| <b>UniProt ID</b>      | Q9MYV3                                                                      |

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