

## Active Recombinant Canine MET Protein, His-tagged, Alexa Fluor 555 conjugated

**Cat. No.** MET-1037CAF555    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Alexa Fluor 555 conjugated recombinant extracellular domain of canine MET (NP_001002963.1) (Met 1-Leu 935) was expressed, with a polyhistidine tag at the N-terminus.                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Dog                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>ProteinLength</b>    | 992                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Form</b>             | Lyophilized                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Bio-activity</b>     | <ol style="list-style-type: none"> <li>1. Measured by its binding ability in a functional ELISA.</li> <li>2. Immobilized human HGF at 10 µg/mL (100 µL/well) can bind canine c-MET, The EC50 of canine c-MET is 7 ng/mL.</li> <li>3. Immobilized canine MET-His at 10 µg/mL (100 µL/well) can bind biotinylated human HG</li> </ol>                                                                                                               |
| <b>Molecular Mass</b>   | The recombinant canine c-Met is a disulfide-linked heterodimer composed of proteolytically cleaved $\alpha$ and $\beta$ subunits. Each $\alpha$ and $\beta$ subunit together consists of 922 amino acids and has a predicted molecular mass of 103 ( $\alpha=33 + \beta=70$ ) kDa. As a result of glycosylation, the apparent molecular mass of the canine c-Met is approximately 42-47 kDa and 85-95 kDa respectively in SDS-PAGE under reducing |

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|                                     |                                                                                                                                                                                                                                                                          |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                     | conditions.                                                                                                                                                                                                                                                              |
| <b>N-terminal Sequence Analysis</b> | Glu 25                                                                                                                                                                                                                                                                   |
| <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>               | <p>Disulfide-linked homodimer</p> <p>Labeled with Alexa Fluor 555 via amines</p> <p>With an excitation and emission maximum of 555/565 nm, Alexa Fluor 555 can be efficiently excited using a 543 nm He-Ne laser line and detected under standard TRITC/Cy3 filters.</p> |
| <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, 5%-8% trehalose and mannitol.                                                                                                                                                                                                      |
| <b>Reconstitution</b>               | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.                                                                                  |
| <b>Conjugation</b>                  | Alexa Fluor 555                                                                                                                                                                                                                                                          |

## GENE INFORMATION

|                  |                                                                             |
|------------------|-----------------------------------------------------------------------------|
| <b>Gene Name</b> | MET MET proto-oncogene, receptor tyrosine kinase [ Canis lupus familiaris ] |
|------------------|-----------------------------------------------------------------------------|

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|                 |                                                                                                                                                                                                                           |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Official Symbol | MET                                                                                                                                                                                                                       |
| Synonyms        | c-Met; HGF receptor; HGF/SF receptor; SF receptor; met proto-oncogene (hepatocyte growth factor receptor); met proto-oncogene tyrosine kinase; proto-oncogene c-Met; scatter factor receptor; tyrosine-protein kinase Met |
| Gene ID         | 403438                                                                                                                                                                                                                    |
| mRNA Refseq     | NM_001002963                                                                                                                                                                                                              |
| Protein Refseq  | NP_001002963                                                                                                                                                                                                              |
| UniProt ID      | Q75ZY9                                                                                                                                                                                                                    |

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