

## Active Recombinant Dog NTRK Protein, His-tagged, Alexa Fluor 647 conjugated

**Cat. No.** NTRK-1042CAF647    **Lot. No.** (See product label)

### SPECIFICATION

|                                     |                                                                                                                                                                                                                                         |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>             | Alexa Fluor 647 conjugated recombinant canine NTRK (Met1-His430) was expressed with a C-terminal polyhistidine tag.                                                                                                                     |
| <b>Species</b>                      | Dog                                                                                                                                                                                                                                     |
| <b>Source</b>                       | HEK293                                                                                                                                                                                                                                  |
| <b>ProteinLength</b>                | 410                                                                                                                                                                                                                                     |
| <b>Form</b>                         | Lyophilized                                                                                                                                                                                                                             |
| <b>Bio-activity</b>                 | Measured by its binding ability in a functional ELISA. Immobilized canine NTRK-His at 10 µg/mL (100 µL/well) can bind biotinylated mouse BDNF, The EC50 of biotinylated mouse BDNF is 0.07-0.17 µg/mL.                                  |
| <b>Molecular Mass</b>               | The recombinant canine NTRK comprises 410 amino acids and has a predicted molecular mass of 45.6 kDa. The apparent molecular mass of the protein is approximately 66-76 kDa in SDS-PAGE under reducing conditions due to glycosylation. |
| <b>N-terminal Sequence Analysis</b> | Cys 32                                                                                                                                                                                                                                  |
| <b>Endotoxin</b>                    | < 1.0 EU/ µg of the protein as determined by the LAL method.                                                                                                                                                                            |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                         |                                                                                                                                                                                         |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>           | > 95 % as determined by SDS-PAGE                                                                                                                                                        |
| <b>Characteristic</b>   | Disulfide-linked homodimer<br>Labeled with Alexa Fluor 647 via amines<br>Excitation = 650 nm<br>Emission = 668 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, 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 647                                                                                                                                                                         |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                         |
| <b>Synonyms</b>         | NTRK                                                                                                                                                                                    |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA