

# Active Recombinant Mouse Glial Cell Line Derived Neurotrophic Factor Family Receptor Alpha 3, His-tagged and Fc-tagged

**Cat. No.** Gfra3-5619M    **Lot. No.** (See product label)

## SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                          |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>    | Recombinant Mouse Gfra3 protein was expressed in Sf 21 with the Fc part of human IgG1 and a C-terminal 6-His tag. Glu34-Arg379.                                                                                                                                                                                                          |
| <b>Species</b>             | Mouse                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>              | S. frugiperda                                                                                                                                                                                                                                                                                                                            |
| <b>Protein Length</b>      | 34-379 a.a.                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>         | Mouse Gfra3 is a member of the GDNF family of receptors. It is one of four known members, all of which contain three conserved cysteine repeats. It is synthesized as a 397 aa precursor, with a hydrophobic signal sequence of 28 aa, a 343 aa mature segment, and a propeptide segment of 26 aa that is removed in the mature protein. |
| <b>Form</b>                | Lyophilized from a 0.2 µm filtered solution in PBS and NaCl.                                                                                                                                                                                                                                                                             |
| <b>N-terminal Sequence</b> | Met                                                                                                                                                                                                                                                                                                                                      |
| <b>Molecular Weight</b>    | 66.2 kDa                                                                                                                                                                                                                                                                                                                                 |
| <b>Activity</b>            | Measured by its binding ability in a functional ELISA. Immobilized Recombinant Mouse (rm) Artemin at 1 µg/mL can bind rmGfra3 Fc Chimera with an apparent $K_D < 5$                                                                                                                                                                      |

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|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                        | nM.                                                                                                                                                                                                                                                                   |
| <b>Endotoxin Level</b> | <1.0 EU per 1 µg of the protein by the LAL method.                                                                                                                                                                                                                    |
| <b>SDS-PAGE</b>        | 70-75kDa, reducing conditions                                                                                                                                                                                                                                         |
| <b>Purity</b>          | >80%, by SDS-PAGE under reducing conditions and visualized by silver stain.                                                                                                                                                                                           |
| <b>Reconstitution</b>  | Reconstitute at 100 µg/mL in sterile PBS                                                                                                                                                                                                                              |
| <b>Storage</b>         | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution. |

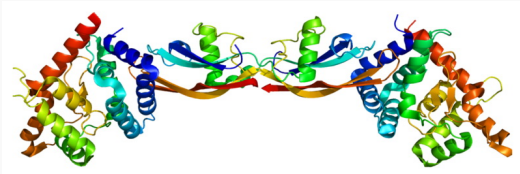
## GENE INFORMATION

|                        |                                                                                                                                                                                             |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Gfra3 glial cell line derived neurotrophic factor family receptor alpha 3 [ Mus musculus ]                                                                                                  |
| <b>Official Symbol</b> | Gfra3                                                                                                                                                                                       |
| <b>Synonyms</b>        | Gfra3; glial cell line derived neurotrophic factor family receptor alpha 3; Y15110; GFRalpha3; GDNF family receptor alpha-3; GFR alpha-3; GFR-alpha-3; GDNFR-alpha-3; GDNF receptor alpha-3 |
| <b>Gene ID</b>         | 14587                                                                                                                                                                                       |
| <b>mRNA Refseq</b>     | NM_010280                                                                                                                                                                                   |
| <b>Protein Refseq</b>  | NP_034410                                                                                                                                                                                   |

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|                              |                                                                                          |
|------------------------------|------------------------------------------------------------------------------------------|
| UniProt ID                   | O35118                                                                                   |
| Chromosome Location          | 18 B1; 18                                                                                |
| Function                     | axon guidance receptor activity; coreceptor activity; protein binding; receptor activity |
| PDB rendering based on 2gh0. |        |