

## Active Recombinant Mouse Gfral Protein, Fc-tagged

**Cat. No.** GFRAL-6321M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | The extracellular domain of mouse GFRAL (aa 20-349) fused to the N-terminus of the Fc region of mouse IgG2a was expressed in HEK 293 cells.                                                                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>ProteinLength</b>    | 20-349 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Description</b>      | GFRAL (GDNF receptor $\alpha$ -like) is a distant member of the GDNFR family of proteins. Mouse GFR $\alpha$ -like contains a 330aa extracellular domain. It is expressed on hindbrain neurons of the CNS and functions as an anti-apoptotic molecule during neuronal stress. GFRAL is a functional receptor for GDF15, facilitating weight-loss functions of the protein through c-Ret downstream signaling. GFRAL and GDF15 signaling is implicated in diet-based obesity and insulin resistance. |
| <b>Bio-activity</b>     | Measured by its binding ability in a functional ELISA.                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Endotoxin</b>        | <0.06 EU/ $\mu$ g purified protein.                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Purity</b>           | $\geq$ 98% (SDS-PAGE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Stability</b>        | Stable for at least 1 year after receipt when stored at -20 centigrade.<br>Working aliquots are stable for up to 3 months when stored at -20 centigrade.<br>Avoid freeze/thaw cycles.                                                                                                                                                                                                                                                                                                               |

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|                       |                                                                           |
|-----------------------|---------------------------------------------------------------------------|
| <b>Storage</b>        | Short term storage at +4 centigrade, long term storage at -20 centigrade. |
| <b>Storage Buffer</b> | Lyophilized from 0.2 µm-filtered solution in PBS.                         |
| <b>Reconstitution</b> | Reconstitute at 100 µg/mL in sterile PBS.                                 |
| <b>Shipping</b>       | BLUE ICE                                                                  |

## GENE INFORMATION

|                        |                                                                                                                   |
|------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Gfral GDNF family receptor alpha like [ Mus musculus (house mouse) ]                                              |
| <b>Official Symbol</b> | Gfral                                                                                                             |
| <b>Synonyms</b>        | Gfral; GDNF family receptor alpha like; Gral; AY457637; GDNF family receptor alpha-like; GDNF receptor alpha-like |
| <b>Gene ID</b>         | 404194                                                                                                            |
| <b>mRNA Refseq</b>     | NM_205844                                                                                                         |
| <b>Protein Refseq</b>  | NP_995316                                                                                                         |
| <b>UniProt ID</b>      | Q6SJE0                                                                                                            |

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