

## Recombinant Mouse Gmfb

**Cat. No.** Gmfb-650M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |   |
|-------------------------|---|
| <b>Product Overview</b> | Glia Maturation Factor-Beta (GMF-Beta) Mouse Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 141 amino acids and having a total molecular mass of 16.6kDa. GMF-Beta, Mouse Recombinant is purified by proprietary chromatographic techniques.  |
| <b>Species</b>          | Mouse   |
| <b>Source</b>           | E.coli  |
| <b>Description</b>      | GMFB is part of the GMF subfamily of the larger actin-binding protein ADF family. GMFB is phosphorylated after phorbol ester stimulation, and is crucial for the nervous system. GMFB causes brain cell differentiation, stimulates neural regeneration and inhibits tumor cell proliferation. GMFB overexpression in astrocytes results in the increase of BDNF production. GMFB expression is increased by exercise, thus BDNF is important for exercise-induction of BDNF. |
| <b>Form</b>             | Sterile Filtered White lyophilized (freeze-dried) powder. The GMF-beta protein was lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.  |
| <b>AA Sequence</b>      | SESLVVCDDVA EDLVEKLRKF RFRKETHNAA IIMKIDKDER<br>LVVLDEELEGVSPDELKDEL PERQPRFIVY SYKYQHDDGR VSYPLCFIFS<br>SPVGCKPEQQMMYAGSKNKL VQTAELTKVF EIRNTEDLTE EWLREKLGFF H.   |
| <b>Purity</b>           | Greater than 97.0% as determined by HPLC and SDS-PAGE.  |

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**Usage** The products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Stability** Lyophilized GMF-B although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution GMF-beta should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to ad

**Reconstitution** It is recommended to reconstitute the lyophilized GMFB in sterile 18MΩ-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

## GENE INFORMATION

**Gene Name** [Gmfb?glia maturation factor, beta \[?Mus musculus?\(house mouse\) \]](#)

**Official Symbol** Gmfb

**Synonyms** Gmfb; glia maturation factor, beta; C79176; AI851627; D14ErtD630e; 3110001H22Rik; 3110001O16Rik; GMF-beta; OTTMUSP00000028260

**Gene ID** [63985](#)

**mRNA Refseq** [NM\\_022023](#)

**Protein Refseq** [NP\\_071306](#)

**UniProt ID** [Q9CQI3](#)

**Chromosome Location** 14 C1; 14 24.32 cM

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**Function**

Arp2/3 complex binding; actin binding; growth factor activity

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