

## Recombinant Human GMFB Protein (142 aa)

**Cat. No.** GMFB-390G    **Lot. No.** (See product label)

### SPECIFICATION

**Product Overview**      Recombinant human Glia Maturation Factor beta (rhGMF-beta) produced in E. coli is a single non-glycosylated polypeptide chain containing 142 amino acids. rhGMF-beta has a molecular mass of 16.7kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques.

**Species**      Human

**Source**      E.coli

**ProteinLength**      142

**Description**      Glia Maturation Factor beta (GMF-beta) is a 17 kDa brain specific protein that belongs to the ADF/cofilin superfamily. It is a neurotrophin that induces maturation of neurons and glial cells. Unlike other neurotrophins, GMF-β lacks a leader sequence and can be phosphorylated by protein kinase A and protein kinase C suggesting its role in signal transduction. GMF-β is a prominent mediator of inflammation in the central nervous system and can activate several inflammation-related genes such as tumor necrosis factor-α and interleukin-1β. Researchers have shown there are significantly higher levels of GMF-β protein in all the effected regions of Alzheimer's disease (AD) brains suggesting an important role of GMF-β in AD pathogenesis.

**Form**      Sterile Filtered White lyophilized (freeze-dried) powder.

**Bio-activity**      Bioassay data are not available.

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<b>Molecular Mass</b>	16.7 kDa, observed by reducing SDS-PAGE.
<b>AA Sequence</b>	MESLVVCDVAEDLVEKLRKFRFRKETNNAAIIMKIDKDKRLVVLDEELEGISPDELK DELPERQPRFIVYSYKYQHDDGRVSYPLCFIFSSPVGCKPEQQMMYAGSKNKLVQT AELTKVFEIRNTEDLTEEWLREKLGFFH
<b>Endotoxin</b>	< 0.2 EU/μg, determined by LAL method.
<b>Purity</b>	> 95% by SDS-PAGE and HPLC analyses.
<b>Storage</b>	Lyophilized recombinant human Glia Maturation Factor beta (rhGMF-beta) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rhGMF-beta remains stable up to 2 weeks at 4 centigrade or up to 3 months at -20 centigrade.
<b>Storage Buffer</b>	Lyophilized after extensive dialysis against PBS.
<b>Reconstitution</b>	Reconstituted in ddH <sub>2</sub> O at 100 μg/mL.

## GENE INFORMATION

<b>Gene Name</b>	GMFB glia maturation factor, beta [ Homo sapiens ]
<b>Official Symbol</b>	GMFB
<b>Synonyms</b>	GMFB; glia maturation factor, beta; glia maturation factor beta; GMF; GMF-beta;
<b>Gene ID</b>	2764
<b>mRNA Refseq</b>	NM_004124

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**Protein Refseq** NP\_004115

**MIM** 601713

**UniProt ID** P60983

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