

**GMF- $\beta$**   
**Catalog # PVGS1413****Specification**

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**GMF- $\beta$  - Product Information**

Primary Accession [P60983](#)  
**Species**  
Human

**Sequence**  
Met1-His142

**Purity**  
> 95% as analyzed by SDS-PAGE<br>> 95% as analyzed by HPLC

**Endotoxin Level**  
< 0.2 EU/  $\mu$ g of protein by gel clotting method

**Expression System**  
E. coli

Formulation **Lyophilized after extensive dialysis against PBS.**

**Reconstitution**  
It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH<sub>2</sub>O up to 100  $\mu$ g/ml.

**Storage & Stability**  
Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

**GMF- $\beta$  - Additional Information**

**Gene ID** 2764

**Other Names**  
Glia maturation factor beta, GMF-beta, GMFB

**Target Background**  
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- $\beta$  lacks a leader sequence and can be phosphorylated by protein kinase A and protein kinase C suggesting its role in signal transduction. GMF- $\beta$  is a prominent mediator of inflammation in the central nervous system and can activate several inflammation-related genes such as tumor necrosis factor- $\alpha$  and interleukin-1 $\beta$ . Researchers have shown there are significantly higher levels of GMF- $\beta$  protein in all the effected regions of Alzheimer's disease (AD) brains suggesting an important role of GMF- $\beta$  in AD pathogenesis.

## **GMF- $\beta$ - Protein Information**

**Name** GMFB

### **Function**

This protein causes differentiation of brain cells, stimulation of neural regeneration, and inhibition of proliferation of tumor cells.

## **GMF- $\beta$ - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## **GMF- $\beta$ - Images**