

## Recombinant Human Glia Maturation Factor beta

**Cat. No.** GMFB-04H    **Lot. No.** (See product label)

### SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>    | Recombinant Human Glia Maturation Factor beta produced in E.coli is a single non-glycosylated polypeptide chain containing 141 amino acids and having a molecular mass of approximately 16.5KDa.                                                                                                                                                                                                          |
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>              | E.coli                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Description</b>         | GMF- $\beta$ , a brain-specific protein that belongs to the actin-binding proteins (ADF) structural family. GMF- $\beta$ appears to play a role in the differentiation, maintenance, and regeneration of the nervous system. It also supports the progression of certain auto-immune diseases, possibly through its ability to induce the production and secretion of various pro-inflammatory cytokines. |
| <b>Purity</b>              | >98% by SDS-PAGE and HPLC analyses.                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Formulation</b>         | Lyophilized from a 0.2mm filtered concentrated (1.0mg/ml) solution in 20mM PB, pH 7.4, 130mM NaCl.                                                                                                                                                                                                                                                                                                        |
| <b>Biological Activity</b> | The biological activity was determined by the dose-dependent stimulation of thymidine uptake by BaF3 cells expressing FGF receptors yielding an ED50 <0.5ng/ml.                                                                                                                                                                                                                                           |
| <b>Endotoxin</b>           | Less than 1EU/ $\mu$ g of rHuGMF- $\beta$ as determined by LAL method.                                                                                                                                                                                                                                                                                                                                    |

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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at <-20°C. Further dilutions should be made in appropriate buffered solutions.

**Storage**

This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles.

## GENE INFORMATION

**Gene Name** GMFB

**Synonyms** GMF, GMF-beta, Glia maturation factor beta; glia maturation factor, beta; GMFB

**Gene ID** 2764

**mRNA Refseq** NM\_004124.2

**Protein Refseq** NP\_004115.1

**MIM** 601713

**UniProt ID** P60983

**Chromosome Location** 14q22.2

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**Function**

actin binding, enzyme activator activity, growth factor activity, protein kinase inhibitor activity, signal transducer activity.

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