

Glia Maturation Factor beta

Human, Recombinant (rHu GMF-β)

Expressed in *E. coli*

Cat. No. CRP0869

Lot. No. (See product label)

PRODUCT INFORMATION

Description: GMF-β, a brain-specific protein that belongs to the actin-binding proteins (ADF) structural family. GMF-β 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.

Amino-AcidSequence: 141 amino acids, non-glycosylated

M. W. : 16,500Da

Recombinant: Expressed in *E. coli*

Purity: >98% by SDS-PAGE and HPLC analyses.

Formulation: Lyophilized from a 0.2mm filtered concentrated (1.0mg/ml) solution in 20mM PB, pH 7.4, 130mM NaCl.

Biological Activity: 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.

Endotoxin: Less than 1EU/μg of rHuGMF-β as determined by LAL method.

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

mRNA Refseq: [NM_004124.2](#)

Protein Refseq: [NP_004115.1](#)

MIM: [601713](#)

GeneID: [2764](#)

Uniprot ID: [P60983](#)

Chromosome Location: 14q22.2

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

Process: nervous system development, protein amino acid phosphorylation, signal transduction.

REFERENCES

1. Yamazaki H, Tateyama H, et al. GMFB promoted T-cell differentiation into -/CD8+ cells when analysed by two-colour flow cytometry. *Histopathology*. 2005; 47(3): 292-302.
2. Inoue M, Fujii Y, et al. T-cell development in human thymoma. *Pathol Res Pract*. 1999; 195(8): 542-547.
3. Chen G, Marx A, et al. New WHO histologic classification predicts prognosis of thymic epithelial tumors: a clinicopathologic study of 200 thymoma cases from China. *Cancer*. 2002; 95(2):420-429.

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21 Brookhaven BLVD · Port Jefferson Station, NY 11776, USA
Technical Support: T: 631-871-5806 · F: 631-207-8356
E-mail: info@creative-biolabs.com
www.creative-biolabs.com