

Recombinant Human Glia Maturation Factor beta

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	E.coli
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.
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/ μ g of rHuGMF- β 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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