

Recombinant Mouse Gmfb

Cat. No. Gmfb-650M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Glia Maturation Factor-Beta (GMF-Beta) Mouse Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 141 amino acids and having a total molecular mass of 16.6kDa. GMF-Beta, Mouse Recombinant is purified by proprietary chromatographic techniques.
Species	Mouse
Source	E.coli
Description	GMFB is part of the GMF subfamily of the larger actin-binding protein ADF family. GMFB is phosphorylated after phorbol ester stimulation, and is crucial for the nervous system. GMFB causes brain cell differentiation, stimulates neural regeneration and inhibits tumor cell proliferation. GMFB overexpression in astrocytes results in the increase of BDNF production. GMFB expression is increased by exercise, thus BDNF is important for exercise-induction of BDNF.
Form	Sterile Filtered White lyophilized (freeze-dried) powder. The GMF-beta protein was lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.
AA Sequence	SESLVVCDDVA EDLVEKLRKF RFRKETHNAA IIMKIDKDER LVVLDEELEGVSPDELKDEL PERQPRFIVY SYKYQHDDGR VSYPLCFIFS SPVGCKPEQQMMYAGSKNKL VQTAELTKVF EIRNTEDLTE EWLREKLGFF H.
Purity	Greater than 97.0% as determined by HPLC and SDS-PAGE.

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Usage	The products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.
Stability	Lyophilized GMF-B although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution GMF-beta should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add
Reconstitution	It is recommended to reconstitute the lyophilized GMFB in sterile 18MΩ-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

GENE INFORMATION

Gene Name	Gmfb?glia maturation factor, beta [?Mus musculus?(house mouse)]
Official Symbol	Gmfb
Synonyms	Gmfb; glia maturation factor, beta; C79176; AI851627; D14Ert630e; 3110001H22Rik; 3110001O16Rik; GMF-beta; OTTMUSP00000028260
Gene ID	63985
mRNA Refseq	NM_022023
Protein Refseq	NP_071306
UniProt ID	Q9CQI3
Chromosome Location	14 C1; 14 24.32 cM

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Function

Arp2/3 complex binding; actin binding; growth factor activity

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