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## Product Data Sheet

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Product Name: GMFB Mouse  
 Cat. No.: GP20365  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Glia maturation factor beta; GMFB; GMF-B; GMF-beta; GMF; C79176; AI851627; D14ErtD630e; 3110001H22Rik; 3110001O16Rik.		
Amino Acid Sequence	SESLVVCDVA EDLVEKLRKF RFRKETHNAA IIMKIDKDER LVVLDEELEGVSPDELKDEL PERQPRFIVY SYKYQHDDGR VSYPLCFIFS SPVGCKPEQQMMYAGSKNKL VQTAELTKVF EIRNTEDLTE EWLREKLGFF H.		
Solubility	It is recommended to reconstitute the lyophilized GMFB in sterile 18MΩ-cm H <sub>2</sub> O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The GMF-beta protein was lyophilized from a 0.2μm filtered concentrated solution in PBS, pH 7.4.		

### Introduction

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.

### 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 a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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### Background

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.

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