

# Recombinant human GMF-beta protein

Catalog Number: ATGP0681

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-142aa

### UniProt No.

P60983

### NCBI Accession No.

NP\_004115

### Alternative Names

Glia maturation factor beta, GMF, GMF beta, Glia maturation factor beta

## PRODUCT SPECIFICATION

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### Molecular Weight

18.8 kDa (162aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 1mM DTT, 10% glycerol

### Purity

> 95% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

GMFB, also known as GMF, belongs to the GMF subfamily of the larger actin-binding protein ADF family. This protein, which is phosphorylated following phorbol ester stimulation, is important for the nervous system. It causes brain cell differentiation, stimulates neural regeneration and inhibits tumor cell proliferation. Overexpression of GMFB in astrocytes has been shown to enhance brain-derived neurotrophic factor (BDNF) production. GMFB expression is increased by exercise, and the protein is crucial for exercise-induction of BDNF. Recombinant human GMFB protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using

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conventional chromatography techniques.

## Amino acid Sequence

MGSSHHHHHHH SSGLVPRGSH MSESLLVCDV AEDLVEKLRK FRFRKETNNA AIIMKIDKDK RLVVLDEELE GISPDELKDE  
LPERQPRFIV YSYKYQHDDG RVSYP LCFIF SSPVGCKPEQ QMMYAGSKNK LVQTAELTKV FEIRNTEDLT EEWLREKLG F FH

## General References

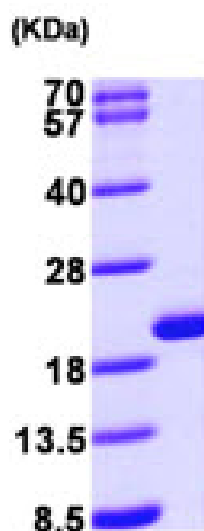
Li YL., et al. (2010) Eur J Cancer. 46(11):2104-18.

Wada T., et al. (2009) Int J Oncol. 35(5):973-6.

## DATA

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### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)