

# 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

<MGSSHHHHH SSGLVPRGSH> MSELVVC DV AEDLVEKLRK FRFRKETNNA AIIMKIDKDK RLVVLDEELE GISPDELKDE  
LPERQPRFIV YSYKYQHDDG RVSYP LCFIF SSPVGCKPEQ QMMYAGSKNK LVQTAELTKV FEIRNTEDLT EEWLREKLG F H

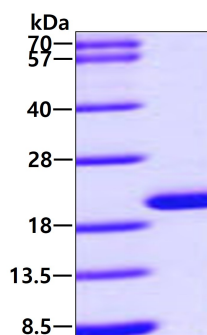
## General References

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

### SDS-PAGE



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