Recombinant human GMF-beta protein

Catalog Number: ATGP0681

PRODUCT INFORMATION

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

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

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 neurotrohic 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

conventional chromatography techniques.

Amino acid Sequence

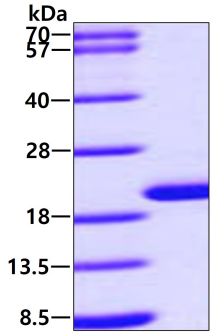
<MGSSHHHHHH SSGLVPRGSH> MSESLVVCDV AEDLVEKLRK FRFRKETNNA AIIMKIDKDK RLVVLDEELE GISPDELKDE LPERQPRFIV YSYKYQHDDG RVSYPLCFIF SSPVGCKPEQ QMMYAGSKNK LVQTAELTKV FEIRNTEDLT EEWLREKLGF FH

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

SDS-PAGE



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