

Recombinant Human Glia Maturation Factor, Beta, His-tagged

GMFB-2794H Human

Lot. No. (See product label)

Specification

Product Overview	Recombinant human GMFB protein (1-142 aa), fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
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.
Source	E.coli.
Sequences	MGSSHHHHHH SSGLVPRGSH MSELVVCDV AEDLVEKLRK FRFRKETNNA AIIMKIDKDK RLVVLDEELE GISPDELKDE LPERQPRFIV YSYKYQHDDG RVSYP LCFIF SSPVGCKPEQ QMMYAGSKNK LVQTAELTKV FEIRNTEDLT EEWLREKLG F H.
Form	Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 0.1M NaCl, 1mM DTT, 10% glycerol.
Molecular Weight	18.8 kDa (162aa), confirmed by MALDI-TOF.
Purity	>95% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Gene Information

Gene Name	GMFB glia maturation factor, beta [Homo sapiens]
Synonyms	<div style='mso-element:para-border-div;border:none;border-top:solid #CCCCCC 1.0pt;mso-border-top-alt:solid #CCCCCC .75pt;padding:3.0pt 0cm 0cm 0cm'>GMFB; glia maturation factor, beta; GMF-beta; glia maturation factor beta; GMF</div>
Gene ID	2764
mRNA Refseq	NM_004124
Protein Refseq	NP_004115
MIM	601713
UniProt ID	P60983

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**Chromosome
Location**

14q22.2

Function

actin binding; enzyme activator activity; growth factor activity; protein kinase inhibitor activity;
signal transducer activity

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