Recombinant Human GMFB Protein (142 aa)

Cat. No. GMFB-390G **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human Glia Maturation Factor beta (rhGMF-beta) produced in E. coli is a single non-glycosylated polypeptide chain containing 142 amino acids. rhGMF-beta has a molecular mass of 16.7kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques.
Species	Human
Source	E.coli
ProteinLength	142
Description	Glia Maturation Factor beta (GMF-beta) is a 17 kDa brain specific protein that belongs to the ADF/cofilin superfamily. It is a neurotrophin that induces maturation of neurons and glial cells. Unlike other neurotrophins, GMF-β lacks a leader sequence and can be phosphorylated by protein kinase A and protein kinase C suggesting its role in signal transduction. GMF-β is a prominent mediator of inflammation in the central nervous system and can activate several inflammation-related genes such as tumor necrosis factor-α and interleukin-1β. Researchers have shown there are significantly higher levels of GMF-β protein in all the effected regions of Alzheimer's disease (AD) brains suggesting an important role of GMF-β in AD pathogenesis.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	Bioassay data are not available.

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Molecular Mass	16.7 kDa, observed by reducing SDS-PAGE.
AA Sequence	MSESLVVCDVAEDLVEKLRKFRFRKETNNAAIIMKIDKDKRLVVLDEELEGISPDELK DELPERQPRFIVYSYKYQHDDGRVSYPLCFIFSSPVGCKPEQQMMYAGSKNKLVQT AELTKVFEIRNTEDLTEEWLREKLGFFH
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% by SDS-PAGE and HPLC analyses.
Storage	Lyophilized recombinant human Glia Maturation Factor beta (rhGMF-beta) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rhGMF-beta remains stable up to 2 weeks at 4 centigrade or up to 3 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH2O at 100 μg/mL.

GENE INFORMATION

Gene Name	GMFB glia maturation factor, beta [Homo sapiens]
Official Symbol	GMFB
Synonyms	GMFB; glia maturation factor, beta; glia maturation factor beta; GMF; GMF-beta;
Gene ID	2764
mRNA Refseq	NM_004124

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Protein Refseq	NP_004115
MIM	601713
UniProt ID	P60983

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