DATASHEET
Version 20181206

GMF-β, Human

Cat. No.: Z03200-50

Size: 50.0 ug

Synonyms: GMFB

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
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 at GenScript.

Amino Acid Sequence:

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00001 MSESLVVCDV AEDLVEKLRK FRFRKETNNA AIIMKIDKDK
00041 RLVVLDEELE GISPDELKDE LPERQPRFIV YSYKYQHDDG
00081 RVSYPLCFIF SSPVGCKPEQ QMMYAGSKNK LVQTAELTKV
00121 FEIRNTEDLT EEWLREKLGF FH
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Source: *E. coli*

Species: Human

Biological Activity: Bioassay data are not available.

Molecular Weight: 16.7 kDa, observed by reducing SDS-PAGE.

Formulation: Lyophilized after extensive dialysis against PBS.

Reconstitution: Reconstituted in ddH_2O at 100 μg/mL.

Purity: > 95% by SDS-PAGE and HPLC analyses.

Endotoxin Level: < 0.2 EU/μg, determined by LAL method.

Storage: Lyophilized recombinant human Glia Maturation Factor beta (rhGMF-beta) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rhGMF-beta remains stable up to 2 weeks at 4°C or up to 3 months at -20°C.

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