

Bioworld Technology,Inc.

Recombinant GMF-β, Human

Catalog Number: BK0068-1mg

Source: Escherichia coli.

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Quantity: 1mg

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-B 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-1B. Researchers have shown there are significantly higher levels of GMF-ß protein in all the effected regions of Alzheimer's disease (AD) brains sµggesting an important role of GMF-β in AD pathogenesisRecombinant 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.

Molecular Weight:

16.7 kDa, observed by reducing SDS-PAGE.

Purity:

> 95% by SDS-PAGE and HPLC analyses.

Biological Activity:

Bioassay data are not available.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) pow-

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

MSESLVVCDVAEDLVEKLRKFRFR-KETNNAAIIM-KIDKDKRLVVLDEELEGISPDELKDELP-ERQPRFIVYSYKYQHDDGRVSY-PLCFIFSSPVGCKPEQQMMYAG-SKNKLVQTAELTKVFEIRNTEDLTEEWL-REKLGFFH

Endotoxin:

 $< 0.2 \text{ EU/}\mu g$, determined by LAL method.

Reconstitution:

Reconstituted in ddH2O at 100 μ g/mL.

Storage:

Lyophilized recombinant human Glia Maturation Factor beta (rhGMF-beta) remains stable up to 6 months at -80 \degree from date of receipt. Upon reconstitution, rhGMF-beta remains stable up to 2 weeks at 4 \degree or up to 3 months at -20 \degree .

Usage:

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