

Product Datasheet

RecombinantGMF- β ,Human (orb1494854)

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-1 β . 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.

Endotoxins

< 0.2 EU/ μ g, determined by LAL method.

Preservatives

Lyophilized after extensive dialysis against PBS.

Form/Appearance

Lyophilized after extensive dialysis against PBS.

Storage

Lyophilized recombinant human Glia Maturation Factor beta (rhGMF-beta) remains stable up to 6 months at -80°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.

Note

For research use only

Application notes

Reconstituted in ddH₂O at 100 μ g/mL.

Protein Sequence

MESLVVCD VAEDLVEKLR KFRFRKETNN AAIIMKIDKD KRLVVLDEEL EGISPDELKD
ELPERQPRFI VYSYKYQHDD GRVSYPLCFI FSSPVGCKPE QQMMYAGSKN
KLVQTAELTK VFEIRNTEDL TEEWLREKLG FFH

Purity

> 95% by SDS-PAGE and HPLC analyses.

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Source	Escherichia coli.
MW	16.7 kDa, observed by reducing SDS-PAGE.
Expiration Date	6 months from date of receipt.

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