

DATASHEET
Version 20181206**GMF- β , Human****Cat. No.:** Z03200-10**Size:** 10.0 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-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.

Amino Acid Sequence:

```
00001 MSELVVCDV AEDLVEKLRK FRFRKETNNA AIIMKIDKDK
00041 RLVVLDEELE GISPDELKDE LPERQPRFIV YSYKYQHDDG
00081 RVSYP LCFIF SSPVGCKPEQ QMMYAGSKNK LVQTAE LTKV
00121 FEIRNTEDLT EEWLREKLGF FH
```

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 ddH₂O at 100 μ g/mL.**Purity:** > 95% by SDS-PAGE and HPLC analyses.**Endotoxin Level:** < 0.2 EU/ μ g, 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.