



User Manual

Glia Maturation Factor beta (GMF- β) (Human)

Cat. No. HEOPP-07051

Description:

Glia Maturation Factor beta (GMF- β), a brain-specific protein that belongs to the actin-binding proteins (ADF) structural family. GMF- β appears to play a role in the differentiation, maintenance, and regeneration of the nervous system. It also supports the progression of certain auto-immune diseases, possibly through its ability to induce the production and secretion of various pro-inflammatory cytokines.

Source:

Escherichia coli

Unit:

2 μ g

Reconstitution:

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at $< -20^{\circ}\text{C}$. Further dilutions should be made in appropriate buffered solutions.

Formulation:

Lyophilized from a 0.2 μ m filtered concentrated solution in 20 mM PB, pH 7.4, 130 mM NaCl.

Storage:

This lyophilized preparation is stable at 2-8 $^{\circ}\text{C}$, but should be kept at -20 $^{\circ}\text{C}$ for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 $^{\circ}\text{C}$. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 $^{\circ}\text{C}$ to -70 $^{\circ}\text{C}$. Avoid repeated freeze/thaw cycles.

Molecular Weight:

Approximately 16.5 kDa, a single non-glycosylated polypeptide chain containing 141

amino acids.

Endotoxin:

Less than 1 EU/ μ g of GMF- β as determined by LAL method.

Usage:

This material is offered by Cyagen Biosciences for research, laboratory or further evaluation purposes. FOR RESEARCH USE ONLY. NOT INTENDED FOR ANY ANIMAL OR HUMAN THERAP EUTIC OR DIAGNOSTIC USE.

Biological Activity:

Data Not Available.

Physical Appearance:

Sterile filtered white lyophilized (freeze-dried) powder.

AA Sequence:

SESLVVCDVA EDLVEKLRKF RFRKETNNA IIMKIDKDKR LVLDEELEG ISPDELKDEL
PERQPRFIVY SYKYQHDDGR VSYPLCFIFS SPVGCKPEQQ MMYAGSKNKL
VQTAELTKVF EIRNTEDLTE EWLREKLGFF H

Purity:

> 98% by SDS-PAGE and HPLC analyses.

Material Safety Data Sheets (MSDSs) are available upon request.

The Certificate of Analysis (COA), which provides detailed quality control information for each product, is also available at the Cyagen website.

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