

## Overview

<b>Synonyms</b>	GMF- <sup>2</sup> , Murine;
<b>Description</b>	Glia maturation factor-beta(GMF- <sup>2</sup> ) coded by GMFb gene at chromosome 14 in mouse, is identical to human GMF- <sup>2</sup> , with the exception of two amino acid residues. It is a brain-specific protein that belongs to the actin-binding proteins (ADF) structural family, and plays an important role in the upstream regulation of excessive production and the releasing of proinflammatory cytokines/chemokines in brain cells, leading to the destruction of oligodendrocytes, the myelin forming cells, and neurons.
<b>Species</b>	Mouse
<b>Source</b>	<i>E. coli</i>
<b>Sequence</b>	SESLVVCDDVA EDLVEKLRKF RFRKETHNAA IIMKIDKDER LVVLDEELEG VSPDELKDEL PERQPRFIVY SYKYQHDDGR VSYPLCFIFS SPVGCKPEQQ MMYAGSKNKL VQTAE LTKVF EIRNTEDLTE EWLREKLGFF H

## Properties

<b>Measured Molecular Weight</b>	Approximately 16.6 kDa, a single non-glycosylated polypeptide chain containing 141 amino acid residues.
<b>Purity</b>	> 97 % by SDS-PAGE and HPLC analyses.
<b>Formulation</b>	Lyophilized from a 0.2 μm filtered concentrated solution in PBS, pH 7.4.
<b>Reconstitution</b>	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 d -20 °C. Further dilutions should be made in appropriate buffered solutions.
<b>Endotoxin Level</b>	Less than 1 EU/μg of rMuGMF- <sup>2</sup> as determined by LAL method.
<b>Physical Appearance</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Storage</b>	This lyophilized preparation is stable at 2-8 °C, but should be kept at -20 °C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 °C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 °C to -70 °C. <b>Avoid repeated freeze/thaw cycles.</b>

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