

Recombinant Glia Maturation Factor Beta (rr GMFB)

Synonyms: none

Introduction: GMFB is part of the GMF subfamily of the larger actin-binding protein ADF family. GMFB is phosphorylated after phorbol ester stimulation, and is crucial for the nervous system. GMFB causes brain cell differentiation, stimulates neural regeneration and inhibits tumor cell proliferation. GMFB overexpression in astrocytes results in the increase of BDNF production. GMFB expression is increased by exercise, thus BDNF is important for exercise-induction of BDNF.

Description: Recombinant rat Glia Maturation Factor Beta produced in E.Coli is a single, non-glycosylated polypeptide chain containing 141 amino acids and having a molecular mass of 16.6 kDa. The GMFB is purified by proprietary chromatographic techniques.

Source: *Escherichia Coli*

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: Lyophilized from a 0.2µm filtered solution in PBS, pH-7.4.
The aliquotes of 1µg and 2 µg contain Trehalose 5% (w/vol) for better recovery

Solubility: It is recommended to reconstitute the lyophilized rr GMFB in sterile H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability: Lyophilized rr GMFB although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution rr GMFB should be stored at 4° C between 2-7 days and for future use below -18° C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity: Greater than 97.0% as determined by RP-HPLC and SDS-PAGE.

Amino Acid Sequence: SESLVVCDVA EDLVEKLRKF RFRKETHNAA IIMKIDKDKR LVVLDEELEG VSPDELDKDEL PERQPRFIVY SYKYQHDDGR VSYPLCFIFS SPLGCKPEQQ MMYAGSKNKL VQTAELTKVF EIRNTEDLTE EWLREKLGFF H

Biological Activity: Determined by its ability to chemoattract human peripheral blood neutrophils using a concentration range of 10.0-100.0 ng/ml.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	2 µg	Cat.N°	13344962
<i>medium</i>	10 µg	Cat.N°	13344963

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