Growth Factor Data Sheet

GoldBio growth factors are manufactured for RESEARCH USE ONLY and cannot be sold for human consumption!

Glia maturation factor beta is an actin-binding protein that shows sequence similarity to the ADF/ cofilin family. It is expressed in the cytosol and on the cell surface of astrocytes and interacts with target receptors in a juxtacrine manner. GMFB is involved in the differentiation of glial cells and neurons. It stimulates axon regeneration and proliferation of astroblasts, and inhibits proliferation of tumors. It also reversibly inhibits proliferation of neuronal and non-neuronal neoplastic cells by arresting the cell cycle in the G0/G1 phase. It is suggested that GMFB acts an intracellular regulator of signal pathways.

Catalog Number **Product Name**	**1170-07** **GMFB, Human** Recombinant Human Glia Maturation Factor, Beta (GMFB) GMF-beta GMF
Source	*Escherichia coli*
MW	~16.6 kDa (141 amino acids)
Sequence	SESLVVCDVA EDLVEKLRKF RFRKETNNAA IIMKIDKDKR LVVLDEELEG ISPDELKDEL PERQPRFIVY SYKYQHDDGR VSYPLCFIFS SPVGCKPEQQ MMYAGSKNKL VQTAELTKVF EIRNTEDLTE EWLREKLGFF H
Accession Number	P60983
Purity	>97% by SDS-PAGE and HPLC analyses
Formulation	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
Storage/Handling	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage. The reconstituted sample can be apportioned into working aliquots and stored at -80 °C for up to 6 months. Avoid repeated freeze/thaw cycles.
Reconstitution	The sample should be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a siliconized tube using PBS that contains a 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Reconstituted solutions are stable for up to one week at 2-8°C. Stock solutions should be aliquoted and stored at -80°C. Further dilutions should be made in appropriate buffered solutions containing BSA or serum.