

Recombinant Human GMFB

CATALOG #:	4880-10	10 µg
	4880-1000	1 mg
LOT #:	_____	
SYNONYMS:	Glia maturation factor beta, GMFB, GMF-B, GMF-beta, GMF	
SOURCE:	<i>E. coli</i>	
PURITY:	> 98 % by SDS-PAGE and RP-HPLC	
FORM:	Lyophilized after dialysis against 20 mM PBS pH 7.4 and 130 mM NaCl.	

RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in sterile ddH₂O to a concentration ≥ 100 µg/ml. This solution can then be diluted into other aqueous buffers.

STORAGE CONDITIONS:

The lyophilized protein is best-stored desiccated at -20°C. Reconstituted human IL-1RA should be stored at 4°C for 2-7 days and at -20°C for future use. For long term storage it is recommended to add a carrier protein (0.1 % HSA or BSA). Avoid freeze/thaw cycles.

DESCRIPTION:

Glia Maturation Factor-Beta (GMF-Beta) is a 17 kDa protein nerve growth factor identified as a growth and differentiation factor in the vertebrate brain. Glia Maturation Factor-Beta stimulates differentiation of normal neurons as well as glial cells. GMFB inhibits the proliferation of the N-18 neuroblastoma line and the C6 glioma line while promoting their phenotypic expression. GMF-beta enhances the phenotypic expression of glia & neurons thus inhibits the proliferation of their respective tumors when added to cell culture. Cell- surface GMF-Beta acts on the target cells at close range when cells are in direct contact. GMF-Beta is produced by thymic epithelial cells and plays an important role in T cell development in favor of CD4+ T cells. GMF-Beta is a brain-specific protein which belongs to the actin-binding proteins (ADF) family. GMF-beta 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.

AMINO ACID SEQUENCE:

SESLVVCDAEDLVEKLRKFRFRKETNNAIIMKIDKDKRLVVLDEELEGISPDELKELPERQPR
FIVYSYKYQHDDGRVSYPLCFIFSSPVGCKPEQQMMYAGSKNKLVTAEELTKVFEIRNTEDLT
EEWLREKLGFFH.

FOR RESEARCH USE ONLY. Not to be used in humans

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- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

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- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

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