

GMF-beta, human recombinant protein
Glia maturation factor beta, GMFB, GMF-B, GMF-beta, GMF
Catalog # PBV10463r

Specification

GMF-beta, human recombinant protein - Product info

Primary Accession [P60983](#)
Calculated MW **17.0 kDa** KDa

GMF-beta, human recombinant protein - Additional Info

Gene ID	2764
Gene Symbol	GMFB
Other Names	
Glia maturation factor beta, GMFB, GMF-B, GMF-beta, GMF	
Gene Source	Human
Source	E. coli
Assay&Purity	SDS-PAGE; ≥98%
Assay2&Purity2	HPLC; ≥98%
Recombinant	Yes
Sequence	SESLVVCDVAEDLVEKLRKFRFRKETNNAAIIM KIDKDKRLVVLDEELEGISPDELKELPERQPRFI VYSYKYQHDDGRVSYPLCFIFSSPVGCKPEQQ MMYAGSKNKLTVQTAELTKVFEIRNTEDLTEEWL REKLGFFH.

Application Notes

Centrifuge the vial prior to opening. Reconstitute in sterile H₂O to a concentration ≥ 100 µg/ml.
This solution can then be diluted into other aqueous buffers.

Format

Lyophilized protein

Storage

-20°C; Lyophilized after dialysis against 20 mM PBS pH 7.4 and 130 mM NaCl.

GMF-beta, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

GMF-beta, human recombinant protein - Images**GMF-beta, human recombinant protein - Background**

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.

GMF-beta, human recombinant protein - References

Kaplan R., et al. J. Neurochem. 57:483-490(1991).
Saito T., et al. Submitted (FEB-1997) to the EMBL/GenBank/DDBJ databases.
Kalnine N., et al. Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.
Halleck A., et al. Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
Ota T., et al. Nat. Genet. 36:40-45(2004).