9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

GMFB Human

Glia Maturation Factor Beta Human Recombinant
NTR0032

Product Overview

Name	GMFB Human
Description	
Glia Maturation Factor Beta Human Recombinant	
Accession (Primary)	P60983
Synonyms	
Glia maturation factor beta, GMFB, GMF-B, GMF-beta, GMF.	
Introduction	
Glia Maturation Factor-Beta (GMF-Beta) is a 17 kDa protein nerve gorwth 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 inhances the phenotypic expression of glia & neurons thus inhibits the proliferation of their respective tumors when added to cell culture. Although astrocytes produce GMF-b and stores it inside the cells, they don't secrete the GMF-B into the cultured medium. Cell- surface GMFb 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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
The GMF-beta protein was lyophilized after dialysis against 20mM PBS pH=7.4 and 130mM NaCl.	
Stability	
Lyophilized GMF-B although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution GMF-beta 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.	

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Purity

Greater than 98.0% as determined by(a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Amino acid sequence

SESLVVCDVAEDLVEKLRKFRFRKETNNAAIIMKIDKDKRLVVLDEELEGISPD

ELKELPERQPRFIVYSYKYQHDDGRVSYPLCFIFSSPVGCKPEQQMMYAGSKN KLVQT

AELTKVFEIRNTEDLTEEWLREKLGFFH.

Solubility

It is recommended to reconstitute the lyophilized GMFB in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

GMFB Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P60983)