

Glia Maturation Factor Gamma, Human Recombinant

CATALOG NUMBER: CGM-632-020P, 20 µg

Synonyms	Glia maturation factor gamma, GMF-gamma, GMFG, MGC126867.
Introduction	GMFG is a hematopoietic-specific protein that mediates the pluripotentiality and lineage commitment of human hematopoietic stem cells. Glia maturation factor gamma is a cytokine-responsive protein in EPO-induced and G-CSF-induced hematopoietic lineage development. Glia maturation factor also acts as a Nerve Growth Factor in nervous system development, angiogenesis and immune function. GMFG possesses hematopoietic tissue-specific gene expression, a promoter concentrated with high-score hematopoiesis-specific transcription factors, and molecular coevolution with a rudimentary blood/immune system.
Description	<p>Glia Maturation Factor-Gamma (GMF-Gamma) Human Recombinant produced in <i>E. coli</i> is a single, non-glycosylated, polypeptide chain containing 142 amino acids and having a total molecular mass of 16.8 kDa.</p> <p>Glia Maturation Factor-Gamma, GMF-Gamma, Human Recombinant is purified by proprietary chromatographic techniques.</p>
Source	<i>Escherichia coli</i> .
Amino Acid Sequence	MSDSLVCVCEV DPELTEKLRK FRFRKETDNA AIIMKVDKDR QMVVLEEEFQ NISPEELKME LPERQPRFVV YSYKYVHDDG RVSYP LCFIF SSPVGCKPEQ QMMYAGSKNR LVQTAELTKV FEIRTTDDL T EAWLQEKLSF FR
Formulation	The GMF-gamma protein contains 20mM Tris-HCL pH-8, 1mM DTT, 1mM EDTA and 10% Glycerol.
Storage	Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer period of time. Please prevent freeze-thaw cycles.
Purity	Greater than 90% as determined by SDS-PAGE.