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

MIA Human

Melanoma Inhibitory Activity Human Recombinant
GRF0259

Product Overview

Name	MIA Human
Description	
Melanoma Inhibitory Activity Human Recombinant	
Accession (Primary)	Q16674
Synonyms	
Melanoma-derived growth regulatory protein precursor, Cartilage-derived retinoic acid-sensitive protein, CD-RAP, MIA.	
Introduction	
The Melanoma Inhibitory protein (MIA) was identified as an inhibitor of in vitro growth of malignant melanoma cells. The protein contains a SH3 domain. MIA acts as a potent tumor cell growth inhibitor for malignant melanoma cells and some other neuroectodermal tumors, including gliomas, in an autocrine fashion. In a study of human melanoma cell lines with different metastatic capacity MIA mRNA expression appeared to be inversely correlated with pigmentation. MIA has been shown to represent a very sensitive and specific serum marker for systemic malignant melanoma that might be useful for staging of primary melanomas, detection of progression from localized to metastatic disease during follow-up, and monitoring therapy of advanced melanomas.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
The protein was lyophilized from a concentrated (1mg/ml) solution containing 20mM Potassium-phosphate pH=7 and 150mM potassium chloride.	
Stability	
Lyophilized MIA although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution MIA should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.	
Purity	
Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.	
Amino acid sequence	

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Agrees with the sequence of native MIA human with an addition N-terminal Methionine residue.

MGPMPKLADRKLCADQECSSHPISMAVALQDYMAPDCRFLTIHRGQVV

YVFSLKGRGRFLWGGSVQGDYYGDLAARLGYFPSSIVREDQTLKVDVKT DKWDFYCQ.

Biological Activity

The biological activity is calculated by the inhibiting effect on the invasion of Mel In Tumor cells and found active in Mel In assay.

Solubility

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

Protein content

UV spectroscopy at 280 nm using the absorption coefficient of 19300 M -1 cm -1 .

Precautions

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

Target Information: (Q16674)