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California Bioscience

Product Datasheet

Product Name	Melanoma Inhibitory Activity Human Recombinant
Cata No	CB500212
Source	*Escherichia Coli.*
Synonyms	Melanoma-derived growth regulatory protein precursor, Cartilage-derived retinoic acid-sensitive protein, CD-RAP, MIA.

Description

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.
Melanoma Inhibitory Activity Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain consisting of 108 amino having a total molecular mass of 12237 Dalton.
The MIA is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

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.

Purity

Greater than 95.0% as determined by:
(a) Analysis by RP-HPLC.
(b) Analysis by SDS-PAGE.

Formulation

The protein was lyophilized from a concentrated (1.66mg/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℃. Upon reconstitution MIA should be stored at 4℃ between 2-7 days and for future use below
-18℃.
Please prevent freeze-thaw cycles.

Sequence

Agrees with the sequence of native MIA human with an addition N-terminal Methionine residue.
MGPMPKLADRKLCADQECSSHPISMAVALQDYM
APDCRFLTIHRGQVV
YVFSLKGRGRFLWGGSVQGDYYGDLAARLGYFP
SSIVREDQTLKVDVKT
DKWDFYCQ.

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