

32-1602: MIA Recombinant Protein

Alternative Name : Melanoma-derived growth regulatory protein precursor, Cartilage-derived retinoic acid-sensitive protein, CD-RAP, MIA.

Description

Source : Escherichia Coli. 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. 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.

Product Info

Amount : 20 µg
Purification : Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Content : The protein was lyophilized from a concentrated (1mg/ml) solution containing 20mM Potassium-phosphate pH=7 and 150mM potassium chloride.
Storage condition : 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.
Amino Acid : Agrees with the sequence of native MIA human with an addition N-terminal Methionine residue. MGPMPLADRLKCADQECSSHPISMAVALQDYMAPDCRFLTIHRGQVVVYFSLKGRGRFLWGGSVQGDYYGDLAARLGYPSSIVREDQTLKVDVKTDKWDFYCQ.

Application Note

It is recommended to reconstitute the lyophilized Melanoma Inhibitory Activity in sterile 18MΩ·cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions. The biological activity is calculated by the inhibiting effect on the invasion of Mel In Tumor cells and found active in Mel In assay.

