

Recombinant Human MIA

Cat. No. MIA-7961H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Melanoma Inhibitory Activity Protein/MIA is produced with our E. coli expression system. The target protein is expressed with sequence (Gly25-Gln131) of Human MIA.
Species	Human
Source	E.coli
ProteinLength	25-131 a.a.
Description	Melanoma Inhibitory Activity Protein (MIA) is an autocrine growth regulatory protein secreted from chondrocytes and malignant melanoma cells, which was the first discovered member of a family of secreted cytokines termed the MIA/OTOR family. The four known members of this family: MIA, MIA2, OTOR and TANGO each contain a Src homology-3 (SH3)-like 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 and promotes melanoma metastasis by binding competitively to fibronectin and laminin in a manner that results in melanoma cell detachment from the extracellular matrix in vivo. The protein 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. Elevated levels of MIA may represent a clinically useful marker for diagnosis of melanoma metastasis as well as a potential marker for

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	rheumatoid arthritis.
Form	Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.4
AA Sequence	MGPMPKLADRKLCADQECSHPI SMAVALQDYMAPDCRFLTIHRGQVVYVFSKLKGR GRLFWGGSV QGDYYGDLAARLG YFPSSIVREDQTLKPGKVDVKTDKWDFYCQLEH HHHHH
Endotoxin	Less than 0.1 ng/µg (1 IEU/µg).
Purity	Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.
Storage	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

GENE INFORMATION

Gene Name	MIA melanoma inhibitory activity [Homo sapiens (human)]
Official Symbol	MIA
Synonyms	MIA; melanoma inhibitory activity; CD-RAP; melanoma-derived growth regulatory protein
Gene ID	8190

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mRNA Refseq	NM_006533
Protein Refseq	NP_006524
MIM	601340
UniProt ID	Q16674
Chromosome Location	19q13.2
Pathway	Neural Crest Differentiation
Function	growth factor activity

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