

MIA Protein, Human (N-His)

Cat. No.:	HY-P70846A
Synonyms:	Melanoma-Derived Growth Regulatory Protein; Melanoma Inhibitory Activity Protein; MIA
Species:	Human
Source:	E. coli
Accession:	Q16674 (G25-Q131)
Gene ID:	8190
Molecular Weight:	Approximately 14.0 kDa

PROPERTIES

AA Sequence	<p>G P M P K L A D R K L C A D Q E C S H P I S M A V A L Q D Y M A P D C R F L T I</p> <p>H R G Q V V Y V F S K L K G R G R L F W G G S V Q G D Y Y G D L A A R L G Y F P</p> <p>S S I V R E D Q T L K P G K V D V K T D K W D F Y C Q</p>
Biological Activity	Measured in a cell proliferation assay using human A375 melanoma cell line. The ED ₅₀ for this effect is 4-8 µg/mL, corresponding to a specific activity is 135-244 units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 50 mM Tris-HCL, 300 mM NaCl, 200 mM arginine, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>Melanoma Inhibitory Activity (MIA) is a protein known for its growth-inhibitory effects on melanoma cells in vitro and displays similar actions on various neuroectodermal tumors, such as gliomas. MIA's ability to elicit growth inhibition suggests its potential role as a tumor suppressor, particularly in the context of malignancies originating from neuroectodermal tissues. Additionally, MIA interacts with FASLG, indicating its involvement in cellular processes related to apoptosis and immune response. Furthermore, its interaction with TMIGD2 suggests a potential role in modulating signaling pathways or cellular adhesion. The multifaceted interactions and growth-inhibitory properties of MIA highlight its</p>
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significance in the regulation of tumor growth and its potential therapeutic relevance in neuroectodermal cancers.

Caution: Product has not been fully validated for medical applications. For research use only.

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