

# Recombinant Human MIIP, His-tagged

**Cat. No.** MIIP-141H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human Migration and Invasion-Inhibitory Protein/MIIP is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Met1-Pro388) of Human MIIP fused with a polyhistidine tag at the C-terminus.                                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>ProteinLength</b>    | 1-388 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>      | Migration and Invasion-Inhibitory Protein (MIIP) was initially discovered in a yeast two-hybrid screen for proteins that interact with and inhibit the migration and invasion-promoting protein insulin-like growth factor binding protein 2 (IGFBP2). It is reported that MIIP not only modulates IGFBP2 but also regulates microtubule by binding to and inhibiting HDAC6, a class 2 histone deacetylase that deacetylates $\alpha$ -tubulin, heat-shock protein 90 (HSP90), and cortactin. In addition, MIIP also regulates the mitosis checkpoint, another microtubule-associated process. |
| <b>AA Sequence</b>      | MVEAEELAQLRLLNLELLRQLWVGQDAVRRSVARAASESSLESSSSYNSETPSTPE<br>TSSTSLSTS CPRGRSSVWGPPDACRGDLRDVARSGVASLPPANCQHQESLGRPR<br>PHSAPSLGTSSLRDPEPSGR LGDPGPQEAQTSRSILAQQSKLSKPRVTFSEESAVP<br>ERSWRLRPYLGWDWIAGSLDTSSSITSQP EAFFSKLQEFRETNKEECICSHPEPQLP<br>GLRESSGSGVEEDHECVYCYRVNRRLFVPVDPGTPC RLCRTPRDQQGPGTLAQ                                                                                                                                                                                                                                                                                       |

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PAHVRVSIPLSILEPPHRYHIHRRKSFDASDTLALPRHCLLGWDIFPP KSEKSSAPRN  
LDLWSSVSAAEQHQKLSGTSSPFHPASPMQMLPPTPTWSVPQVPRPHVPRQKPVD  
HHHHHH

**Endotoxin** Less than 0.1 ng/μg (1 IEU/μg).

**Purity** Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.

## GENE INFORMATION

**Gene Name** [MIIP migration and invasion inhibitory protein \[ Homo sapiens \]](#)

**Official Symbol** MIIP

**Synonyms** MIIP; migration and invasion inhibitory protein; migration and invasion-inhibitory protein; FLJ12438; Ilp45; invasion inhibitory protein 45; IGFBP2-binding protein; invasion-inhibitory protein 45; IIP45; RP5-1077B9.4; FLJ38609;

**Gene ID** [60672](#)

**mRNA Refseq** [NM\\_021933](#)

**Protein Refseq** [NP\\_068752](#)

**MIM** [608772](#)

**UniProt ID** [Q5JXC2](#)

**Chromosome Location** 1p36.22

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