

Recombinant Human MIIP, His-tagged

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

SPECIFICATION

Product Overview 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.

Species Human

Source HEK293

ProteinLength 1-388 a.a.

Description 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 α -tubulin, heat-shock protein 90 (HSP90), and cortactin. In addition, MIIP also regulates the mitosis checkpoint, another microtubule-associated process.

AA Sequence MVEAEELAQLRLLNLELLRQLWVGQDAVRRSVARAASESSLESSSSYNSETPSTPE
TSSTSLSTS CPRGRSSVWGPPDACRGDLRDVARSGVASLPPANCQHQESLGRPR
PHSAPSLGTSSLRDPEPSGR LGDPGPQEAQTSRSILAQQSKLSKPRVTFSEESAVP
ERSWRLRPYLGYDWIAGSLDTSSSITSQP EAFFSKLQEFRETNKEECICSHPEPQLP
GLRESSGSGVEEDHECVYCYRVNRRLLFPVPVDPGTPC 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; IIP45; 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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