

Recombinant Full Length Human MTA1 Protein, C-Flag-tagged

Cat. No. MTA1-1137HFL Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human MTA1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes a protein that was identified in a screen for genes expressed in metastatic cells, specifically, mammary adenocarcinoma cell lines. Expression of this gene has been correlated with the metastatic potential of at least two types of carcinomas although it is also expressed in many normal tissues. The role it plays in metastasis is unclear. It was initially thought to be the 70kD component of a nucleosome remodeling deacetylase complex, NuRD, but it is more likely that this component is a different but very similar protein. These two proteins are so closely related, though, that they share the same types of domains. These domains include two DNA binding domains, a dimerization domain, and a domain commonly found in proteins that methylate DNA. The profile and activity of this gene product suggest that it is involved in regulating transcription and that this may be accomplished by chromatin remodeling. Two transcript variants encoding different isoforms have been found for this gene.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	80.6 kDa

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AA Sequence

MAANMYRVGDYVYFENSSSNPYLIRRIEELNKTANGNVEAKVVCFYRRRDISSTLIAL
ADKHATLSVCYK AGPGADNGEEGEIEEEMENPEMVDLPEKLKHQLRHRELFLSRQL
ESLPATHIRGKCSVTLLNETESLKS Y LEREDFFFYSLVYDPQQKTLLADKGEIRVGN
RYQADITDLLKEGEEDGRDQSRLETQVWEAHNPLTDKQI DQFLVVARSVGT FARAL
DCSSSVRQPSLHMSAAAAARDITLFHAMDTLHKNIYDISKAISALVPQGGPVL CRDE
MEEWSASEANLFEEALEKYGKDFTDIQQDFLPWKSLTSII EYYYMWKTTDRYVQQK
RLKAAEAESK LKQVYIPNYNKPNPNQISVNNIKAGVVNGTGAPGQSPGAGRACESC
YTTQSYQWYSWGPPNMQCRLCASC WTYWKKYGGLKMPTRLDGERPGPNRSNM
SPHGLPARSSGSPKFAMKTRQAFYLHTTKLTRIARRLCREIL RPWHAARHPYLPINS
AAIKAECTARLPEASQSPLVLKQAVRKPLEAVLRYLETHPRPPKPDVPKSVSSVL SS
LTPAKVAPVINNGSPTILGKRSYEQHNGVDGNMKKRLLMPSRGLANHGQTRHMGP
SRNLLLNGKSYPT KVR LIRGGSLPPVKRRRMNWIDAPDDVFY MATEETRKIRKLLSS
SETKRAARRPYKPIALRQS QALPPRP
PPPAPVNDEPIVIEDTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining.

Stability

Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

Storage

Store at -80 centigrade.

Concentration

>50 ug/mL as determined by microplate BCA method.

Preparation

Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Protein Families

Druggable Genome, Transcription Factors

Full Length

Full L.

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GENE INFORMATION

Gene Name MTA1 metastasis associated 1 [Homo sapiens (human)]

Official Symbol MTA1

Synonyms metastasis associated 1; metastasis associated gene 1 protein; metastasis associated protein

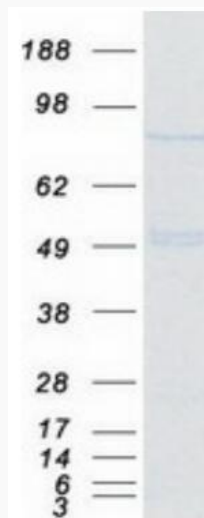
Gene ID 9112

mRNA Refseq NM_004689.4

Protein Refseq NP_004680.2

MIM 603526

UniProt ID Q13330



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Coomassie blue staining of purified MTA1 protein.

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