

Recombinant Human myxovirus (influenza virus) resistance 1, interferon-inducible protein p78 (mouse), His-tagged

Cat. No. MX1-603H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MX1, 1-662aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-662 a.a.
Description	MX1 is a guanosine triphosphate (GTP)-metabolizing protein that participates in the cellular antiviral response. This protein is induced by type I and type II interferons and antagonizes the replication process of several different RNA and DNA viruses. There is a related gene located adjacent to this gene on chromosome 21, and there are multiple pseudogenes located in a cluster on chromosome 4. Recombinant human MX1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In Phosphate buffered saline (pH7.4) containing 10% glycerol, 1mM DTT
Molecular Mass	77.9 kDa (685aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMVVSEVD IAKADPAAAS HPLLLNGDAT VAQKNPGSVA ENNLCSQYEE KVRPCIDLID SLRALGVEQD LALPAIAVIG DQSSGKSSVL EALSGVALPR GSGIVTRCPL VLKLLKLVNE DKWRGKVSQYQ DYEIEISDAS EVEKEINKAQ NAIAGEGMGI SHELITLEIS SRDVPDLTLI

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DLPGITRVAV GNQPADIGYK IKTLIKKYIQ RQETISLVVV PSNVDIATTE
 ALSMAQEVDP EGDRTIGILT KPDLVDKGTE DKVVDVVRNL VFHLKKGymi
 VKCRGQQEIQ DQLSLSEALQ REKIFFENHP YFRDLLEEGK ATPCLA EKL
 TSELITHICK SLPLENQIK ETHQRITEEL QKYGVDIPED ENEKMFFLID
 KVNAFNQDIT ALMQGEETVG EEDIRLFTRL RHEFHKWSTI IENNFQEGHK
 ILSRKIQKFE NQYRGRELPG FVNYRTFETI VKQQIKALEE PAVDMLHTVT
 DMVRLAFTDV SIKNFEEFFN LHRTAKSKIE DIRAEQEREG EKLIRLHFQM
 EQIVYCQDQV YRGALQKVRE KELEEEKKKK SWDFGAFQSS SATDSSMEEI
 FQHLMAYHQE ASKRISSHIP LIIQFFMLQT YGQQLQKAML QLLQDKDTYS
 WLLKERSDTS DKRKFLKERL ARLTQARRRL AQFPG

Purity >85% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 0.25 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name MX1 myxovirus (influenza virus) resistance 1, interferon-inducible protein p78 (mouse) [*Homo sapiens*]

Official Symbol MX1

Synonyms MX1; myxovirus (influenza virus) resistance 1, interferon-inducible protein p78 (mouse); myxovirus (influenza) resistance 1, homolog of murine (interferon inducible protein p78); interferon-induced GTP-binding protein Mx1; IFI 78K; MxA; myxoma resistance protein 1; interferon-regulated resistance GTP-binding protein MxA; MX; IFI78; IFI-78K;

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Gene ID	4599
mRNA Refseq	NM_001144925
Protein Refseq	NP_001138397
MIM	147150
UniProt ID	P20591
Chromosome Location	21q22.3
Pathway	Antiviral mechanism by IFN-stimulated genes, organism-specific biosystem; Cytokine Signaling in Immune system, organism-specific biosystem; ISG15 antiviral mechanism, organism-specific biosystem; Immune System, organism-specific biosystem; Influenza A, organism-specific biosystem; Influenza A, conserved biosystem; Interferon Signaling, organism-specific biosystem;
Function	GTP binding; GTPase activity; nucleotide binding; protein binding;