

Recombinant Human myxovirus (influenza virus) resistance 2 (mouse), His-tagged

Cat. No. MX2-417H Lot. No. (See product label)

SPECIFICATION

Product Overview	MX2, 626-715aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	626-715 a.a.
Description	MX2 has a nuclear and a cytoplasmic form and is a member of both the dynamin family and the family of large GTPases. The nuclear form is localized in a granular pattern in the heterochromatin region beneath the nuclear envelope. A nuclear localization signal (NLS) is present at the amino terminal end of the nuclear form but is lacking in the cytoplasmic form due to use of an alternate translation start codon. This protein is upregulated by interferon-alpha but does not contain the antiviral activity of a similar myxovirus resistance protein 1. Recombinant human MX2 protein, fused to His-tag at N-terminus, was expressed in E.coli.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
Molecular Mass	14.9 kDa (126aa)
AA Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSIGIH LNAYFLETSK RLANQIPFII QYFMLRENGD SLQKAMMQIL QEKNRYSWLL QEQSETATKR RILKERIYRL TQARHALCQF SSKEIH

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Purity	>90% 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	1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	MX2 myxovirus (influenza virus) resistance 2 (mouse) [Homo sapiens]
Official Symbol	MX2
Synonyms	MX2; myxovirus (influenza virus) resistance 2 (mouse); myxovirus (influenza) resistance 2, homolog of murine; interferon-induced GTP-binding protein Mx2; interferon regulated resistance GTP binding protein MXB; MXB; second interferon induced protein p78; p78-related protein; myxovirus resistance protein 2; second interferon-induced protein p78; interferon-regulated resistance GTP-binding protein MXB;
Gene ID	4600
mRNA Refseq	NM_002463
Protein Refseq	NP_002454
MIM	147890
UniProt ID	P20592
Chromosome	21q22.3

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Location	
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; Interferon Signaling, organism-specific biosystem; Interferon alpha/beta signaling, organism-specific biosystem;
Function	GTP binding; GTPase activity; nucleotide binding;

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