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AR51646PU-N Human MX1 (1-662, His-tag) - Purified

Alternate names: IFI-78K, Interferon-induced protein p78, Interferon-regulated resistance GTP-binding protein MxA, Interferon-regulated resistance GTP-binding protein MxA, Myxovirus resistance protein 1

Quantity: 0.5 mg

Concentration: 0.25 mg/ml (determined by Bradford assay)

Background: 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.

Uniprot ID: P20591

NCBI: NP_001171517

GeneID: 4599

Species: Human

Source: E. coli

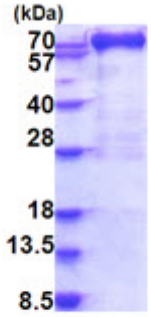
Format:
State: Liquid purified protein
Purity: >85% by SDS - PAGE
Buffer System: Phosphate buffered saline (pH7.4) containing 10% glycerol, 1mM DTT.

Description: Recombinant human MX1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
AA Sequence:
MGSSHHHHHH SSGLVPRGSH MGSMVVSEVD IAKADPAAAS HPLLLNGDAT VAQKNPGSVA
ENNLCSQYEE KVRPCIDLID SLRALGVEQD LALPAIAVIG DQSSGKSSVL EALSGVALPR
GSGIVTRCPL VLKLKKLVNE DKWRGKVSYQ DYEIEISDAS EVEKEINKAQ NAIAGEGMGI
SHELITLEIS SRDVPDLTLI DLPGITRVAV GNQPADIGYK IKTLIKKYIQ RQETISLVVV
PSNVDIATTE ALSMAQEVDP EGDRTIGILT KPDLVDKGTE DKVVDVVRNL VFHLKKGYMI
VKCRGQQEIQ DQLSLSEALQ REKIFFENHP YFRDLLEEGK ATVPCLAEKL TSELITHICK
SLPLLENQIK 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
Molecular weight: 77.9 kDa (685aa)

Storage: Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings: Ku C.C., et al. (2011) Immunol. Cell Biol.89:173-182.

Pictures:



15% SDS-PAGE (3ug)