Recombinant human MxA/Mx1 protein

Catalog Number: ATGP2826

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-662aa

UniProt No.
P20591

NCBI Accession No.
NP_001171517.1

Alternative Names
Interferon-induced GTP-binding protein Mx1, IFI-78K, IFI78, MX, MxA

PRODUCT SPECIFICATION

Molecular Weight
77.9 kDa (685aa)

Concentration
0.25mg/ml (determined by Bradford assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol, 1mM DTT

Purity
> 90% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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.

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Amino acid Sequence

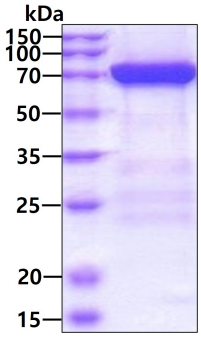
<MGSSHHHHHH SSGLVPRGSH MGS>MVVSEVD IAKADPAAAS HPLLLNGDAT VAQKNPGSVA ENNLCSQYEE KVRPCIDLID SLRALGVEQD LALPAIAVIG DQSSGKSSVL EALSGVALPR GSGIVTRCPL VLKLKKLVNE DKWRGKVSYQ DYEIEISDAS EVEKEINKAQ NAIAGEGMGI SHELITLEIS SRDVPDLTLI DLPGITRVAV GNQPADIGYK IKTLIKKYIQ RQETISLVVV PSNVDIATTE ALSMAQEVDP EGDRTIGILT KPDLVDKGTE 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

General References

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

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.