

MX1, 1-662aa, Human, His tag, E.coli

Cat.NO.: TP03055

3th Edition

Synonyms: Interferon-induced GTP-binding protein Mx1, IFI-78K, IFI78, MX, MxA

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 Weight: 77.9 kDa (685aa)

Sequences:

MGSSHHHHHSSGLVPRGSHMGSMVSEVDIAKADPAAASHPLLLNGDATVAQKNPGSVAENNLCSQYEEKVRP
CIDLIDSLRALGVEQDLALPAIAVIGDQSSGKSSVLEALSGVALPRGSGIVTRCPLVLKLLKLVNEDKWRGKVSQDY
EIEISDASEVEKEINKAQNAIAGEGMGISHLITLIESSRDVPLDLDLPGITRVAVGNQPADIGYKIKTLIKKYIQRQETI
SLVVVPSNVDIATTEALSMAQEVDPEGDRITIGILTKPDLVDKGTEDKVVVDVVRNLVHFLKKGVMIVKCRGQQEIQDQ
LSLSEALQREKIFFENHPYFRDLLEEGKATVPCLAEKLTSELITHICKSLPLENQIKETHQRITEELQKYGVDPEDEN
EKMFFLIDKVNAFNQDITALMQGEETVGEEDIRLFTRLRHEFHKWSTIENNFQEGHKILSRKIQKFENQYRGRELPG
FVNYRTFETIVKQKIKALEEPAVDMLHTVTDMVRLAFTDVSINKFEEFFNLHRTAKSKIEDIRAEQEREKEKLIRLHFQ
MEQIVYCQDQVYRGALQKVREKELEEEKSSWDFGAFQSSSATDSSMEEIFQHLMAYHQEASKRISSHIPLIQFF
MLQTYGQQLQKAMLQLLQDKDYSWLLKERSDTSKDKRFLKERLARLTQARRRLAQFPG

Purity: > 95% by HPLC

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

Endotoxin Level: <1.0 EU per 1 ug of protein (determined by LAL method)

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