

32-4256: Recombinant Bovine Myxovirus Resistance 1

Alternative Name : Interferon-induced GTP-binding protein Mx1, Myxoma resistance protein 1, Myxovirus resistance protein 1, MX1, Interferon-Induced Protein P78, IFI-78K, IFI78, MxA.

Description

Source : Escherichia Coli. MX1 Bovine Recombinant fused with a 20 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain (1-648 a.a) containing a total of 668 amino acids and having a molecular mass of 77kDa. The MX1 is purified by proprietary chromatographic techniques. Myxoma Resistance Protein 1 (MX1) is a member of the dynamin family and contains 1 GED domain. MX1 is an Interferon-induced dynamin-like GTPase with antiviral activity against rabies virus (RABV), vesicular stomatitis virus (VSV) and murine pneumonia virus (MPV). MX1 is ubiquitously expressed. MX1 is induced by type I and type III interferons.

Product Info

Amount : 20 µg

Purification : Greater than 90.0% as determined by: (a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

Content : The MX1 protein was lyophilized from a (1mg/ml) 0.2µm filtered solution containing 20mM Tris-HCl, pH7.9, 500mM NaCl, 0.5mM Imidazole, 0.1mM DTT and 6M urea.

Storage condition : Lyophilized MX1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution MX1 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Amino Acid : MGSSHHHHHSSGLVPRGSHMVHSDLGIEELDSPESLNGSEDMESKSNLYSQYEEKVRPCIDLIDSLRSLGV
EQDLALPAIAVIGDQSSGKSSVLEALSGVALPRGSGIVTRCPLVRLKKGNEDEWKGKVSFLDKEIEIPDASQVE
KEISEAQIAIAGEGTGISHHELISLEVSSPHVPLTLIDLPGITRVAVGNQPPDIEYQIKSLIRKYILRQETINLVVVPAN
VDIATTEALRMAQEVDPOGDRITIGILT KPDLDVKGTEKVVVDVVRNLVFLKKGYMIVKCRGQQDIKHRMSLD
KALQRERIFFEDHAHFRDLLEEGKATIPCLAERLTSELIMHICKTLPLENQIKETHQRITEELQKYGKDIPEESEEK
MFCLIEKIDTFNKEIISTIEGEEFVEQYDSRLFTKVRAEFSKWSAVVEKNFEKGYEAIKQFENRYRGRELPGF
VNYKTFETIHKQVRVLEEPAVDMLHTVTDIIRNTFTDVSGKHFNEFFNLHRTAKSKIEDIRLEQENAEKSIRLHF
QMEQLVYCQDQVYRRALQQVREKEAEEKKNKSNHYFQSQVSEPTDEIFQHLTAYQQEVSTRISGHIPLIQFF
VLRTYGEQLKKSMLQLLQDKDQYDWLLKERTDTRDKRFLKERLERLTRARQLAKFPG.

Application Note

It is recommended to reconstitute the lyophilized MX1 in sterile 18M-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

