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MX1 Bovine

Myxovirus Resistance 1 Bovine Recombinant
RCP1419

Product Overview

Name	MX1 Bovine
Description	
Myxovirus Resistance 1 Bovine Recombinant	
Accession (Primary)	P79135
Synonyms	
Interferon-induced GTP-binding protein Mx1, Myxoma resistance protein 1, Myxovirus resistance protein 1, MX1, Interferon-Induced Protein P78, IFI-78K, IFI78, MxA.	
Introduction	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
The MX1 protein was lyophilized from a (1mg/ml) 0.2 µm filtered solution containing 20mM Tris-HCl, pH7.9, 500mM NaCl, 0.5mM Imidazole, 0.1mM DTT and 6M urea.	
Stability	
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.	
Purity	
Greater than 90.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.	
Amino acid sequence	
MGSSHHHHHHSSGLVPRGSH MVHSDLGIEELDSPESSLNGSEDMESKSNLYSQYEEKVRPCID LIDSLRSLGVEQDLALPAIAVIGDQSSGKSSVLEALSGVALPRGSGIVTRCPLVLRLKKLGNE	

DEWKGKVSFLDKEIEIPDASQVEKEISEAQIAIAGEGTGISHELISLEVSSPHVPDLTLIDLP
GITRVAVGNQPPDIEYQIKSLIRKYILRQETINLVVVPANVDIATTEALRMAQEVDPQGDRTI
GILTKPDLVDKGTEDKVVDVVRNLVFHLKKGYMIVKCRGQQDIKHRMSLDKALQRERIFFEDH
AHFRDLLEEGKATIPCLAERLTSELIMHICKTLPLLENQIKETHQRITEELQKYGKDIPEEES
EKMFCLIEKIDTFNKEIISTIEGEEFVEQYDSRLFTKVRAEFSKWSAVVEKNFEKGYEAIRKE
IKQFENRYRGRELPGFVNYKTFETIIKKQVRVLEEPAVDMLHTVTDIIRNTFTDVSGKHFNEF
FNLHRTAKSKIEDIRLEQENEAEKSIRLHFQMEQLVYCQDQVYRRALQQVREKEAEEEKNKKS
NHYFQSQVSEPSTDEIFQHLTAYQQEVSTRISGHIPLIIQFFVLRTYGEQLKKSMLQLLQDKD
QYDWLLKERTDTRDKRKFLKERLERLTRARQRLAKFPG.

Solubility

It is recommended to reconstitute the lyophilized MX1 in sterile 18M-cm H 2 O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

MX1 Bovine is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P79135)