

Myxovirus Resistance 1 Bovine Recombinant

Item Number	rAP-3685
Synonyms	Interferon-induced GTP-binding protein Mx1, Myxoma resistance protein 1, Myxovirus resistance protein 1, MX1, Interferon-Induced Protein P78, IFI-78K, IFI78, MxA.
Description	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.
Uniprot Accession Number	P79135
Amino Acid Sequence	MGSSHHHHHSSGLVPRGSHMVHSDLGIEELDSPESLNGSEDMESKSNLYSQYEEKVRP-CIDLIDSLRSLGVEQDLALPAIAVIGDQSSGKSSVLEALSGVALPRGSGIVTRCPLVLRLLKLGNEDEWKGKV SFLDKEIEIPDASQVEKEISEAQIAIAGEGTGISHELISLEVSSPHVPDLTLIDLPGITRVAVGNQPPDIEYQIKSL IRKYILRQETINLVVVPANVDIATTEALRMAQEVDPQGDRTIGILT KPDLVDKGTEDKVV DVVRNLV FHLKKG YMIVKCRGQQDIKHRMSLDKALQRERIFFEDHAHFRDLL EEGKATIPCLAERLTSELIMHICKTLPLENQUIE THQRITEELQKYGKDIPEEESEKMFCLIEKIDTFNKEIISTIEGEEFVEQYDSRLFTKVRAEFSKWSAVVEKNF
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. 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.
Formulation and Purity	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. Greater than 90.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Application	
Solubility	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.
Biological Activity	
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**