Mouse IFN alpha 1 Protein

Cat. No. IFN-MM2A1

Description

Source	Recombinant Mouse IFN alpha 1 Protein is expressed from HEK293 with hFc tag at the C-Terminus.
	It contains Cys24-Lys189.
Accession	P01572
Molecular Weight	The protein has a predicted MW of 45.88 kDa. Due to glycosylation, the protein migrates to 50-60 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE

Formulation and Storage

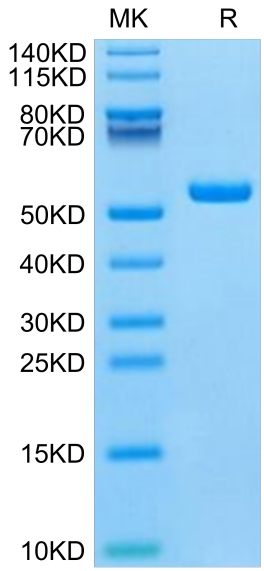
Formulation	Supplied as 0.22μm filtered solution in PBS (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

IFN-α, a cytokine expressed in human islets from individuals affected by type 1 diabetes, plays a key role in the pathogenesis of diabetes by upregulating inflammation, endoplasmic reticulum (ER) stress and MHC class I overexpression, three hallmarks of islet histology in early type 1 diabetes.

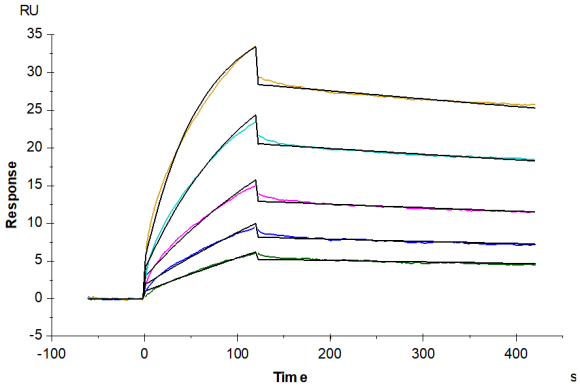
Assay Data

Bis-Tris PAGE



Mouse IFN alpha 1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SPR Data



Human IFN alpha/beta R1, His Tag captured on CM5 Chip via anti-his antibody can bind Mouse IFN alpha 1, hFc Tag with an affinity constant of 11.96 nM as determined in SPR assay (Biacore T200).