
Product Data Sheet

Product Name: IFI30 Human
 Cat. No.: GP20378
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	IFI30; Gamma-IFN-Inducible Lysosomal Thiol Reductase; IFN Gamma-Inducible Protein 30 Preproprotein; Gamma-IFN-Inducible Protein IP-30; Legumaturain; GILT; IP30; IFI-30; MGC32056; EC 1.8.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMNAPLVN VTLYYEALCG GCRAFLIREL FPTWLLVMEI LNVTLVPYGN AQEQNVSGRW EFKCQHGEES CKFNKVEACV LDELDMELAF LTIVCMEEFE DMERSLPLCL QLYAPGLSPD TIMECAMGDR GMQLMHANAQ RTDALQPPHE YVPWVTVNGK PLEDQTQLLT LVCQLYQGK.		
Formulation	The IFI30 solution (1mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl, 1mM DTT and 10% glycerol.		

Introduction

IFI30 inducible lysosomal thiol reductase (IFI30), is a part of the GILT family. IFI30 is a lysosomal thiol reductase which at low pH is capable of decreasing protein's disulfide bonds. IFI30 is expressed constitutively in antigen-presenting cells and induced by gamma-IFN in other cell types. Also, IFI30 plays an important role in MHC class II-restricted antigen processing. IFI30 facilitates the generation of MHC class II-restricted epitopes from disulfide bond-containing antigen by the endocytic reduction of disulfide bonds and Also facilitates MHC class I-restricted recognition of exogenous antigens containing disulfide bonds by CD8+ T-cells or cross-presentation.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

Caution: Product has not been fully validated for medical applications. For research use only.

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IFI30 Human Recombinant produced in E. coli is a single polypeptide chain containing 199 amino acids (58-232) and having a molecular mass of 22.5 kDa. IFI30 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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