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IFI30 Human

Catalog #:CYPS-190

For research use only.

Description: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.

Synonyms: Interferon Gamma-Inducible Protein 30, Gamma-Interferon-Inducible Lysosomal Thiol Reductase, Interferon Gamma-Inducible Protein 30 Preproprotein, Gamma-Interferon-Inducible Protein IP-30, Legumaturain, GILT, IP30, IFI-30, MGC32056, EC 1.8.

Source:E.coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MGSMNAPLVN VTLYYEALCG GCRAFLIREL FPTWLLVMEI LNVTLVPYGN AQEQNVSGRW EFKCQHGEEE CKFNKVEACV LDELDMELAF LTIVCMEEFE DMERSLPLCL QLYAPGLSPD TIMECAMGDR GMQLMHANAQ RTDALQPPHE YVPWVTVNGK PLEDQTQLLT LVCQLYQGK.

Purity: Greater than 90% as determined by SDS-PAGE.

Formulation:
The IFI30 solution (1mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl, 1mM DTT and 10% glycerol.

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.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:
gamma-interferon-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 proteins disulfide bonds. IFI30 is expressed constitutively in antigen-presenting cells and induced by gamma-interferon 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.

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