Recombinant human GILT/IFI30 protein

Catalog Number: ATGP1753

PRODUCT INFORMATION

Expression system
E.coli

Domain
58-232aa

UniProt No.
P13284

NCBI Accession No.
NP_006323

Alternative Names
Gamma-interferon-inducible lysosomal thiol reductase, GILT, IFI-30, IP30

PRODUCT SPECIFICATION

Molecular Weight
22.5 kDa (199aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol,1mM DTT

Purity
> 85% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
IFI30, also as known as gamma-interferon-inducible lysosomal thiol reductase, belongs to the GILT family. This protein is a lysosomal thiol reductase that at low pH can reduce protein disulfide bonds. The enzyme is expressed constitutively in antigen-presenting cells and induced by gamma-interferon in other cell types. This enzyme has an important role in MHC class II-restricted antigen processing. This protein facilitates the generation of MHC class II-restricted epitodes from disulfide bond-containing antigen by the endocytic reduction of disulfide bonds. Also facilitates MHC class I-restricted recognition of exogenous antigens containing disulfide

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bonds by CD8+ T-cells or cross-presentation. Recombinant human IFI30 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by conventional column chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.

Amino acid Sequence

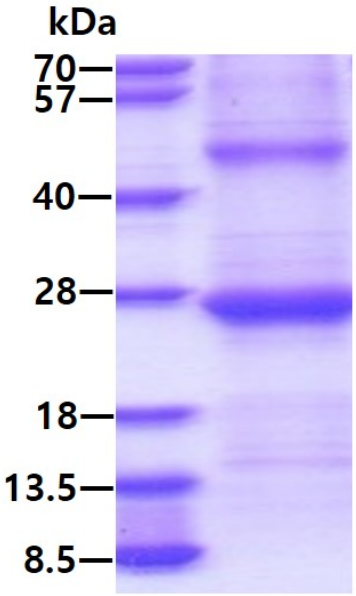
<MGSSHHHHHH SSGLVPRGSH MGSM>NAPLVN VTLYYEALCG GCRAFLIREL FPTWLLVMEI LNVTLVPYGN AQEQNVSGRW EFKCQHGEEE CKFNKVEACV LDELDMELAF LTIVCMEEFE DMERSLPLCL QLYAPGLSPD TIMECAMGDR GMQLMHANAQ RTDALQPPHE YVPWVTVNGK PLEDQTQLLT LVCQLYQGK

General References

Arunachalam B, et al. (2000) Proc Natl Acad Sci u S A 97 (2): 745-50.
Luster AD, et al. (1988) J Biol Chem 263 (24): 12036-43.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.