

## IFI30 Protein, Human (HEK293, His)

Cat. No.:	HY-P75820
Synonyms:	Gamma-interferon-inducible lysosomal thiol reductase; Legumaturain; GILT; IP30
Species:	Human
Source:	HEK293
Accession:	P13284 (S27-K243)
Gene ID:	10437
Molecular Weight:	31-34 kDa

### PROPERTIES

AA Sequence	<pre> S P L Q A L D F F G   N G P P V N Y K T G   N L Y L R G P L K K   S N A P L V N V T L Y Y E A L C G G C R   A F L I R E L F P T   W L L V M E I L N V   T L V P Y G N A Q E Q N V S G R W E F K   C Q H G E E E C K F   N K V E A C V L D E   L D M E L A F L T I V C M E E F E D M E   R S L P L C L Q L Y   A P G L S P D T I M   E C A M G D R G M Q L M H A N A Q R T D   A L Q P P H E Y V P   W V T V N G K P L E   D Q T Q L L T L V C Q L Y Q G K K P D V   C P S S T S S           </pre>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	IFI30, a lysosomal thiol reductase, serves as a key player in the reduction of protein disulfide bonds within the lysosomal environment. This enzymatic activity is crucial for the complete unfolding of proteins targeted for lysosomal degradation. Notably, IFI30 plays a pivotal role in antigen processing, specifically contributing to the generation of MHC class II-restricted epitopes from antigens containing disulfide bonds through endocytic reduction. Additionally, IFI30 is implicated in
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facilitating MHC class I-restricted recognition of exogenous antigens with disulfide bonds by CD8+ T-cells, thus contributing to cross-presentation processes.

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

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