



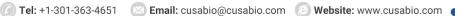


# Recombinant Human Ubiquitin-like protein ISG15 (Isg15)

| Product Code      | CSB-EP011843HU   |
|-------------------|--|
| Relevance         | Ubiquitin-like protein which plays a key role in the innate immune response to viral infection either via its conjugation to a target protein (ISGylation) or via its action as a free or unconjugated protein. ISGylation involves a cascade of enzymatic reactions involving E1, E2, and E3 enzymes which catalyze the conjugation of ISG15 to a lysine residue in the target protein. Its target proteins include SERPINA3G/SPI2A, JAK1, MAPK3/ERK1, PLCG1, TRIM25, STAT5A, MAPK1/ERK2 and globin. Can also isgylate: DDX58/RIG-I which inhibits its function in antiviral signaling response and EIF4E2 which enhances its cap structure-binding activity and translation-inhibition activity. Exhibits antiviral activity towards both DNA and RNA viruses, including influenza A and B virus, sindbis virus (SV) and herpes simplex type-1 (HHV-1). Plays a significant role in the control of neonatal Chikungunya virus (CHIKV) infection by acting as a putative immunomodulator of proinflammatory cytokines. Protects mice against the consequences of Chikungunya virus infection by downregulating the pathogenic cytokine response, often denoted as the cytokine storm. Plays a role in erythroid differentiation. The secreted form of ISG15 can: induce natural killer cell proliferation, act as a chotactic factor for neutrophils and act as a IFN-gamma-inducing cytokine playing an essential role in antimycobacterial immunity |
| Abbreviation      | Recombinant Human Isg15 protein  |
| Storage           | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.  |
| Uniprot No.       | P05161   |
| Alias             | Interferon-induced 15 kDa proteinInterferon-induced 17 kDa protein ;IP17Ubiquitin cross-reactive protein   |
| Product Type      | Recombinant Protein  |
| Immunogen Species | Homo sapiens (Human)   |
| Purity            | Greater than 90% as determined by SDS-PAGE.  |
| Sequence          | AWDLKVKMLGGNDFLVSVTNSMTVSELKKQIAQKIGVPAFQQRLAHQTAVLQ<br>DGLTLSSLGLGPSSTVMLVVQNCSEPLSILVRNERGHSNIYEVFLTQTVDTLKK<br>KVSQREQVHEDQFWLSFEGRPMEDKELLGEYGLKPQCTVIKHLRLRGGGG   |
| Source            | E.coli   |
| Target Names      | lsg15  |
| Expression Region | 2-157aa  |
| Notes             | Repeated freezing and thawing is not recommended. Store working aliquots at  |



#### **CUSABIO TECHNOLOGY LLC**







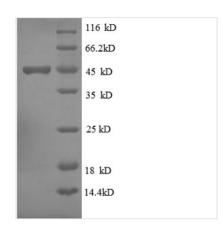
4°C for up to one week.

Tag Info N-terminal GST-tagged

Mol. Weight 44.3kDa

**Protein Length** Full Length of Mature Protein

#### **Image**



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

### **Description**

Discover the superior quality of our Recombinant Human Isg15 protein, meticulously engineered for researchers focused on immunology. This fulllength Ubiquitin-like protein ISG15 (Interferon-induced 15 kDa protein; Interferon-induced 17 kDa protein) is expressed in an E.coli system, covering the 2-157aa expression region to deliver the complete mature protein for your research needs. To facilitate purification and detection, the Isg15 protein features an N-terminal GST tag, ensuring consistent performance and reliable results in your experiments.

With a purity greater than 90% as determined by SDS-PAGE, our Recombinant Human Isg15 protein is available in both liquid and lyophilized powder forms. Trust in this high-quality protein to support your immunology research and provide dependable, reproducible outcomes.

## Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

### Shelf Life

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