

## Product datasheet

# Recombinant Human ISG15 protein ab117165

### Overview

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<b>Product name</b>	Recombinant Human ISG15 protein
<b>Protein length</b>	Full length protein

### Description

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<b>Nature</b>	Recombinant
<b>Source</b>	Escherichia coli

### Amino Acid Sequence

<b>Accession</b>	<a href="#">P05161</a>
<b>Species</b>	Human
<b>Sequence</b>	MADQLTEEQIAEFKEAFSLF DKDGDGTITT KELGTVMRSL GQNPTEAELQ DMINEVDADG NGTIDFPEFL TMMARKMKDT DSEEEIREAF RVFDKDGNGY ISAAELRHVM TNLGEKLTDE EVDEMIREAD IDGDGQVNYE EFVQMMTAKG SMGWDLTVKM LAGNEFQVSL SSSMSVSELK AQITQKIGVH AFQQRLAVHP SGVALQDRVP LASQGLGPGS TVLLVVDKCD EPLNILVRNN KGRSSTYEVR LTQTV AHLKQ QVSGLEGVQD DLFWLTFEGK PLEDQLPLGE YGLKPLSTVF MNLRLRGG
<b>Molecular weight</b>	34 kDa including tags
<b>Amino acids</b>	1 to 157

### Specifications

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Our [Abpromise guarantee](#) covers the use of **ab117165** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	HPLC SDS-PAGE
<b>Purity</b>	> 98 % SDS-PAGE. ab117165 is > 98.0% as determined by RP-HPLC and analysis by SDS-PAGE.

<b>Form</b>	Liquid
<b>Additional notes</b>	Although stable 4°C for 4 weeks, ab117165 should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

## Preparation and Storage

<b>Stability and Storage</b>	Shipped at 4°C. Please see notes section. pH: 8.00 Constituents: 0.58% Sodium chloride, 0.02% DTT, 0.32% Tris HCl
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## General Info

<b>Function</b>	Ubiquitin-like protein that is conjugated to intracellular target proteins after IFN-alpha or IFN-beta stimulation. Its enzymatic pathway is partially distinct from that of ubiquitin, differing in substrate specificity and interaction with ligating enzymes. ISG15 conjugation pathway uses a dedicated E1 enzyme, but seems to converge with the Ub conjugation pathway at the level of a specific E2 enzyme. Targets include STAT1, SERPINA3G/SPI2A, JAK1, MAPK3/ERK1, PLCG1, EIF2AK2/PKR, MX1/MxA, and RIG-1. Deconjugated by USP18/UBP43. Shows specific chemotactic activity towards neutrophils and activates them to induce release of eosinophil chemotactic factors. May serve as a trans-acting binding factor directing the association of ligated target proteins to intermediate filaments. May also be involved in autocrine, paracrine and endocrine mechanisms, as in cell-to-cell signaling, possibly partly by inducing IFN-gamma secretion by monocytes and macrophages. Seems to display antiviral activity during viral infections. In response to IFN-tau secreted by the conceptus, may ligate to and regulate proteins involved in the release of prostaglandin F2-alpha (PGF), and thus prevent lysis of the corpus luteum and maintain the pregnancy.
<b>Tissue specificity</b>	Detected in lymphoid cells, striated and smooth muscle, several epithelia and neurons.
<b>Sequence similarities</b>	Contains 2 ubiquitin-like domains.
<b>Cellular localization</b>	Cytoplasm. Secreted. UCRP conjugates seem to be noncovalently associated with the intermediate filaments and distributed in a punctate pattern. Also secreted.

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