

**RPES8094**

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## Product Information

<b>Product SKU:</b>	RPES8094	<b>Expression Host:</b>	E.coli	<b>Size:</b>	20µg
<b>Tag:</b>	N-Trx	<b>Reactivity:</b>	Human	<b>Accession:</b>	P05161

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## Additional Information

<b>Calculated MW:</b>	37 kDa	<b>Observed MW:</b>	33 kDa
<b>Sequence:</b>	Met1-Gly157		

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## Protein Information

**Background:** Interferon-induced 17 KD protein (ISG15), a 15-KD protein of unique primary amino acid sequence, functions intracellularly as a ubiquitin homolog and a cytokine that induces production of IFN-gamma and augments NK / lymphokine-activated killer cell proliferation and function. ISG15 is secreted from monocytes and lymphocytes. ISG15 is a ubiquitin-like molecule that is strongly upregulated by type I interferons as a primary response to diverse microbial and cellular stress stimuli. Alterations in the ISG15 signaling pathway have also been found in several human tumor entities. In addition to being stimulated by type I interferon, expression of ISG15 is greatly induced by viral or bacterial infection through the Janus kinase/signal transducer and activator of transcription (Jak / STAT) signaling pathway. After induction, ISG15 is secreted by monocytes, B-and T-lymphocytes, and fibroblasts. We demonstrate the novel way in which the function of the ISG15 protein is inhibited by influenza B virus, which strongly induces the ISG15 protein: a specific region of the influenza B virus NS1 protein, which includes part of its effector domain, blocks the covalent linkage of ISG15 to its target proteins both in vitro and in infected cells.

**Synonyms:** ISG, G1P, IFI, IMD, Ubiquitin-Like Protein ISG, ISG15, G1P2, IFI15, IMD38, IP17, UCRP, hUCRP, Interferon-Induced 15 kDa Protein, Interferon-induced 17 kDa protein, ISG15 ubiquitin-like modifier, Ubiquitin Cross-Reactive Protein, Ubiquitin-Like Protein ISG15, alpha-inducible protein (clone IFI-15K), IFI 15, Interferon, Interferon alpha

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inducible protein, Interferon induced protein 15, Interferon induced protein IFI-15K, Interferon stimulated protein 15 kDa, Interferon-induced 17-kDa/15-kDa protein, ISG 15, ISG15 ubiquitin like modifier

**Endotoxin:** < 10 EU/mg of the protein as determined by the LAL method

**Formulation:** Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol.

**Purity:** > 90% as determined by reducing SDS-PAGE.

**Bio-Activity:** Not validated for activity

**Storage:** Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.