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Datasheet for ABIN7317338

ISG15 Protein



Overview

Quantity:	1 mg
Target:	ISG15
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

Product Details

Purpose:	Recombinant Human ISG15/G1P2 Protein (mature form)
Sequence:	Met 1-Gly 157
Characteristics:	A DNA sequence encoding the mature form of human ISG15 (AAH09507.1) (Met 1-Gly 157) was expressed and purified.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Target Details

Target:	ISG15
Alternative Name:	ISG15/G1P2 (ISG15 Products)
Background:	Background: Interferon-induced 17 kDa protein (ISG15), a 15- kDa protein of unique primary
	amino acid sequence, functions intracellularly as an ubiquitin homologue 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 an
	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 signalling pathway have also been found in several human tumour 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) signalling 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.

Synonym: Ubiquitin-Like Protein ISG15, Interferon-Induced 15 kDa Protein, Interferon-Induced 17 kDa Protein, IP17, Ubiquitin Cross-Reactive Protein, hUCRP, ISG15, G1P2, UCRP

Molecular Weight:

17.2 kDa

Application Details

Restrictions:

For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile 50 mM Tris, pH 8.0
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	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.