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ISG15 Protein (His tag)



Overview

Quantity:	50 µg
Target:	ISG15
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ISG15 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human ISG15/G1P2 Protein (His Tag)
Sequence:	Gly2-Gly157(Ser83Asn)
Characteristics:	Recombinant Human ISG15 is produced by our E.coli expression system and the target gene encoding Gly2-Gly157(Ser83Asn) is expressed with a 6His tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Tarnet Details

rarget Details	
Target:	ISG15
Alternative Name:	ISG15/G1P2 (ISG15 Products)
Background:	Background: Ubiquitin-Like Protein ISG15 (ISG15) is a ubiquitin-like protein that becomes conjugated to many cellular proteins upon activation by interferon-alpha and -beta. Several functions have been ascribed to the encoded protein, including chemotactic activity towards

neutrophils, direction of ligated target proteins to intermediate filaments, cell-to-cell signaling, and antiviral activity during viral infections. While conjugates of this protein have been found to be noncovalently attached to intermediate filaments, this protein is sometimes secreted. ISG15 becomes conjugated to a diverse set of proteins after IFN-alpha/beta stimulation or microbial challenge. The functions or biochemical consequences ISG15 conjugation to proteins are not yet known, but it appears that this modification does not target proteins for proteasomal degradation. ISG15 shows specific chemotactic activity towards neutrophils and activates them to induce release of eosinophil chemotactic factors. Upon interferon treatment, ISG15 can be detected in both free and conjugated forms, and is secreted from monocytes and lymphocytes where it can function as a cytokine. In the cell, ISG15 co-localizes with intermediate filaments and ISGylation may modulate the JAK-STAT pathway or certain aspects of neurological disease.

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:

18.2 kDa

UniProt:

P05161

Application Details

Restrictions:

For Research Use only

Handling

Format:	Frozen, Liquid
Buffer:	Supplied as a 0.2 μm filtered solution of 50 mM HEPES, 100 mM NaCl, pH 8.0.
Storage:	-20 °C
Storage Comment:	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.