

Recombinant Human ISG15 Protein (2-157), Rhodamine 110 Labeled

Cat. No. ISG15-12H **Lot. No.** (See product label)

SPECIFICATION

Product Overview This product consists of a full-length, mature ISG15 polypeptide (amino acids 2-157) recombinantly expressed in E.coli, conjugated on its c-terminus to a quenched Rhodamine110 dye. Hydrolysis of the conjugate results in fluorescence observable by excitation at 485nm and emission at 535nm, which substantially reduces the risk of autofluorescence of compounds in screenings. Typical working range is 50-500nM.

Species Human

Source E.coli

ProteinLength 2-157

Description ISG15 (Interferon Stimulated Gene, 15kDa) is a Ubiquitin like modifier which initiates innate immune response by activating RIG-I signaling, stimulating NK-cell proliferation, inhibiting viral budding, and acting as an IFN γ -inducing cytokine. ISG15 contains two tandem ubiquitin homology domains and is cross-reactive with α -Ubiquitin antibodies. Conjugation of ISG15 to a substrate protein occurs through a Ubiquitin like cascade via an E1 (UBE1L), E2 (UbcH8/UBE2L6) and E3 (not yet discovered.) Deconjugation normally occurs via UBP43 (USP18), however there are several viral proteases that are able to hydrolyze ISG15 conjugates in order to evade immune response. These include the OTU-containing protease of Crimean-Congo Hemorrhagic Fever nairovirus, and the Papain-Like Protease (PLPro) of the SARS coronavirus.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	17.6kDa
Purity	> 97% by LCMS
Storage Buffer	50mM MES pH 6.0, 100mM NaCl, 10% Glycerol

GENE INFORMATION

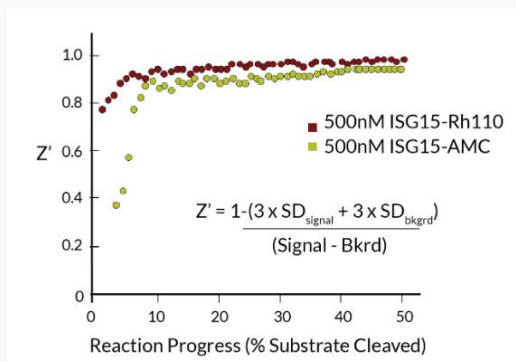
Gene Name	ISG15 ISG15 ubiquitin like modifier [Homo sapiens (human)]
Official Symbol	ISG15
Synonyms	ISG15; ISG15 ubiquitin like modifier; G1P2; IP17; UCRP; IFI15; IMD38; hUCRP; ubiquitin-like protein ISG15; interferon, alpha-inducible protein (clone IFI-15K); interferon-induced 17-kDa/15-kDa protein; interferon-stimulated protein, 15 kDa; ubiquitin cross-reactive protein
Gene ID	9636
mRNA Refseq	NM_005101
Protein Refseq	NP_005092
MIM	147571
UniProt ID	P05161

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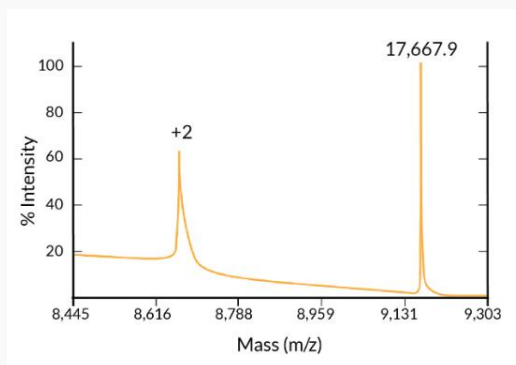
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**Robustness of
Rhodamine 110 vs 7-
amino-4-
methylcoumarin
(AMC) substrates.**



LCMS



**Signal to
Background.**

