

Division of Signal Transduction Therapy

Standard Operation Procedure

Preparation of ISG15 residues 1-157

<u>Enzyme description:-</u>	ISG15 1-157 = mature full length
<u>Clone number:-</u>	DU32336
<u>Source:-</u>	human recombinant
<u>Tag:-</u>	cleaved from N-terminal GST
<u>Purification method:-</u> treatment.	GSH-Sepharose, Prescission Protease
<u>Expression system:-</u>	E.coli
<u>Calculated molecular mass:-</u>	
Monoisotopic	17573 Da
Average Mass	17583 Da
[cysteines reduced, methionines have not been oxidised]	
<u>Theoretical pI:-</u>	7.7
<u>Purity:-</u>	90%
<u>Enzyme storage buffer:-</u>	
10mM Ammonium bicarbonate	
<u>Storage temperature:-</u>	-80°C
<u>Assay:-</u>	
Loading of UBE2I.	

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Clone Data Sheet

ISG15 1-157

<u>Protein</u>	ISG15 1-157 = mature full length
<u>Synonyms</u>	Interferon stimulated gene of 15kDa
<u>Clone Number</u>	DU32336
<u>Species</u>	Human
<u>Accession Number</u>	Protein: NP_005092
<u>Tags</u>	GST-
Aminoacid sequence of the purified protein	G PLGSMGWDLTVKMLAGNEF Q VLSLSSMSVSELKA Q IT Q KIGVHAF Q Q RLAVHPSGVAL Q DRVPLAS Q GLGPGSTVLLVVDK C DEPLN I LVR N K GRSSTYEVRL T Q T VAHL K Q Q VSGLEGV Q DDLF W LT F E G K P LE D Q L P L GEYGL K PLSTV F M N L R LR G G
Native sequence	The native (in bold) sequence is a little longer and normally processed to this mature form.
Protease cleavage	Precession protease site underlined
Cloning sites	BamHI / NotI
<u>DNA sequence of insert</u>	GGATCCATGGGCTGGGACCTGACGGTGAAGATGCTGGCGGGCAACGAATT CCAGGTGTCCCTGAGCAGCTCCATGTCGGTGTGAGAGCTGAAGGCGCAGA TCACCCAGAAGATCGGCGTGCACGCCTTCCAGCAGCGTCTGGCTGTCCAC CCGAGCGGTGTGGCGCTGCAGGACAGGGTCCCCCTTGCCAGCCAGGGCCT GGGCCCCGGCAGCACGGTCTGCTGGTGGTGGACAAATGCGACGAACCTC TGAACATCCTGGTGAAGATAACAAGGGCCGAGCAGCACCTACGAGGTG CGGCTGACGCAGACCGTGGCCACCTGAAGCAGCAAGTGAGCGGGCTGGA GGGTGTGCAGGACGACCTGTTCTGGCTGACCTTCGAGGGGAAGCCCCTGG AGGACCAGCTCCCGCTGGGGGAGTACGGCCTCAAGCCCCTGAGCACCGTG TTCATGAATCTGCGCCTGCGGGGAGGCTAAACAGAGCCTGGCGGGGAGGC TAAACAGAGCCTGGCGGGGAGGCTAAACAGAGCCTGGCGGGGAGG