

Recombinant Human UBA7, His-tagged

Cat. No. UBA7-629H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human UBA7 is produced in <i>E. coli</i> and fused at the C-terminus to a His-tag.
Species	Human
Source	<i>E. coli</i>
Description	The modification of proteins with ubiquitin is an important cellular mechanism for targeting abnormal or short-lived proteins for degradation. Ubiquitination involves at least three classes of enzymes: ubiquitin-activating enzymes, or E1s, ubiquitin-conjugating enzymes, or E2s, and ubiquitin-protein ligases, or E3s. This gene encodes a member of the E1 ubiquitin-activating enzyme family. The encoded enzyme is a retinoid target that triggers promyelocytic leukemia (PML)/retinoic acid receptor alpha (RARalpha) degradation and apoptosis in acute promyelocytic leukemia, where it is involved in the conjugation of the ubiquitin-like interferon-stimulated gene 15 protein.
Purity	>95%. Purified by Ni-affinity chromatography.
Application	Activation of ISG15 for ISGylation of specific proteins in presence of dedicated E2 conjugating/E3 ligase enzymes. ISGylation pathway studies. Test proteins for ISG15 E3 ligase activity. Test proteins as potential targets for ISG15 modification.
Storage	-80°C.

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GENE INFORMATION

Gene Name	UBA7 ubiquitin-like modifier activating enzyme 7 [Homo sapiens]
Synonyms	UBA7; ubiquitin-like modifier activating enzyme 7; UBA1, ubiquitin-activating enzyme E1 homolog B; UBA7, ubiquitin-activating enzyme E1; ubiquitin-activating enzyme 7; ubiquitin-activating enzyme E1 homolog; ubiquitin-activating enzyme E1-like; ubiquitin-activating enzyme E1-related protein; ubiquitin-activating enzyme-2; ubiquitin-like modifier-activating enzyme 7; D8; UBE2; UBA1B; UBE1L; MGC12713
Gene ID	7318
mRNA Refseq	NM_003335
Protein Refseq	NP_003326
MIM	191325
UniProt ID	P41226
Chromosome Location	3p21
Pathway	Parkinson's disease; Ubiquitin mediated proteolysis
Function	ATP binding; ISG15 activating enzyme activity; ligase activity; nucleotide binding

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