

Active Recombinant Human UBA7, His-tagged

Cat. No. UBA7-171H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human UBA7 (amino acid residues 1-1012), fused with N-terminal His, was expressed in Insect sf21.
Species	Human
Source	Insect Cells
ProteinLength	1-1012 a.a.
Description	UBA7 is a member of the E1 activating enzyme family and cloning of the human gene was first described by Kok et al. (1993). The UBA7 gene has been mapped to chromosome 3p21 by high resolution fluorescence in situ hybridization (Carritt et al. 1992). UBA7 and UBE2L6 have been reported to function as the E1 and E2 enzymes respectively for ISG conjugation forming a thioester intermediate through Cys-131 of UBE2L6 (Takeuchi et al. 2005).
Form	50 mM HEPES pH 7.5, 150 mM sodium chloride, 2 mM dithiothreitol, 10% glycerol
Bio-activity	E1 Thioester ISG15 Loading Assay: The activity of His-UBA7 was validated by loading ISG15 onto the active cysteine of His-UBA7. Incubation of the His-UBA7 enzyme in the presence of ISG15 and ATP at 30°C was compared at two time points, T0 and T10 minutes. Sensitivity of the ISG15/His-UBA7 thioester bond to the reducing agent DTT was confirmed.
Molecular Mass	116.53 kDa

 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

Purity	>98% by SDS-PAGE
Storage	12 months at -70°C. Avoid multiple freeze/thaw cycles.
Concentration	0.5 mg/ml
GENE INFORMATION	
Gene Name	UBA7 ubiquitin-like modifier activating enzyme 7 [Homo sapiens]
Official Symbol	UBA7
Synonyms	UBA7; ubiquitin-like modifier activating enzyme 7; UBE1L, ubiquitin activating enzyme E1 like; ubiquitin-like modifier-activating enzyme 7; D8; UBA1; ubiquitin activating enzyme E1 homolog B (yeast); UBA1B; ubiquitin activating enzyme E1; UBE2; ubiquitin-activating enzyme 7; ubiquitin-activating enzyme-2; UBA7, ubiquitin-activating enzyme E1; ubiquitin-activating enzyme E1 homolog; UBA1, ubiquitin-activating enzyme E1 homolog B; ubiquitin-activating enzyme E1-related protein; UBE1L; MGC12713;
Gene ID	7318
mRNA Refseq	NM_003335
Protein Refseq	NP_003326
MIM	191325
UniProt ID	P41226
Chromosome	3p21

 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

Location	
Pathway	Adaptive Immune System, organism-specific biosystem; Antigen processing: Ubiquitination and Proteasome degradation, organism-specific biosystem; Antiviral mechanism by IFN-stimulated genes, organism-specific biosystem; Class I MHC mediated antigen processing & presentation, organism-specific biosystem; Cytokine Signaling in Immune system, organism-specific biosystem;
Function	ATP binding; ISG15 activating enzyme activity; ligase activity; nucleotide binding;

 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