

Recombinant Human Ubiquitin-Like Modifier Activating Enzyme 3, His-tagged

Cat. No. UBA3-1938H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanUBA3 protein,fused to His-tag at N-terminus, was expressed in E.coli andpurified by using conventional chromatography.
Species	Human
Description	UBA3, also known as NEDD8-activatingenzyme E1 catalytic subunit, is the catalyticsubunit of the dimeric UBA3-NAE1 E1 enzyme. E1 activates NEDD8 by firstadenylating its C-terminal glycine residue with ATP, thereafter linking thisresidue to the side chain of the catalytic cysteine, yielding a NEDD8-UBA3thioester and free AMP. E1 finally transfers NEDD8 to the catalytic cysteineof UBE2M.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20%glycerol, 1mM DTT.
Molecular Weight	54.4 kDa (487aa).
Purity	> 90%by SDS - PAGE
Concentration	1 mg/ml (determinedby Bradford assay)
Sequences of aminoacids	MGSSHHHHHHSSGLVPRGSH MGSHMADGEE PERKRRRIEE LLAEKMAVDG GCGDTGDWEG RWNHVKKFLERSGPFTHPDF EPSTESLQFL LDTCKVLVIG AGGLGCELLK NLALSGFRQI HVIDMDTIDV SNLNRQFLFRPKDIGRPAE VAAEFLNDRV PNCNVVPHFN KIQDFNDFY RQFHIIVCGL DSIARRWIN GMLISLLNYEDGVLDPSSIV PLIDGGTEGF KGNARVILPG MTACIECTLE

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LYPPQVNFPM CTIASMPRLP EHCIEYVRMLQWPKEQPFGE GVPLDGDDPE
 HIQWIFQKSL ERASQYNIRG VTYRLTQGVV KRIIPAVAST
 NAVIAAVCATEVFKIATSAY IPLNNYLVFN DVDGLYTYTF EAERKENCPA
 CSQLPQNIQF SPSAKLQEV L DYL TNSASLQMKSPAITATL EGKNRTLYLQ
 SVTSIEERTR PNLSKTLKEL GLVDGQELAV ADVTTPQTVL FKLHFTS

Storage

Can bestored at +4°C short term (1-2 weeks). For long term storage, aliquot andstore at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Pathways

Adaptive ImmuneSystem; Antigen processing: Ubiquitination & Proteasome degradation; ClassI MHC mediated antigen processing & presentation; Coregulation ofAndrogen receptor activity; Immune System; Ubiquitin mediated proteolysis

GENE INFORMATION

Gene Name

UBA3 ubiquitin-like modifieractivating enzyme 3 [Homo sapiens]

Official Symbol

UBA3

Synonyms

UBA3;ubiquitin-like modifier activating enzyme 3; UBE1C; hUBA3; NEDD8-activatingenzyme E1 catalytic subunit; NEDD8-activating enzyme E1C; Nedd8-activatingenzyme hUba3; ubiquitin-activating enzyme 3; ubiquitin-likemodifier-activating enzyme 3; UBA3, ubiquitin-activating enzyme E1 homolog; ubiquitin-activatingenzyme E1C (UBA3 homolog, yeast); ubiquitin-activating enzyme E1C (homologousto yeast UBA3); NEDD8-activating enzyme E1 catalytic subunit; Ubiquitin-activating enzyme E1C; Ubiquitin-like modifier-activating enzyme3; EC=6.3.2.

Gene ID

9039

mRNA Refseq

NM_003968

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Protein Refseq	NP_003959
MIM	603172
UniProt ID	Q8TBC4
Chromosome Location	3p24.3-p13
Function	ATP binding; NEDD8activating enzyme activity; acid-amino acid ligase activity; ligase activity;nucleotide binding; protein binding; protein heterodimerization activity

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