

UBA3, 1-463aa, Human, His tag, E.coli

Cat.NO.: TP04370

3th Edition

Synonyms:NEDD8-activating enzyme E1 catalytic subunit, UBE1C

Description:UBA3, also known as NEDD8-activating enzyme E1 catalytic subunit, is the catalytic subunit of the dimeric UBA3-NAE1 E1 enzyme. E1 activates NEDD8 by first adenylating its C-terminal glycine residue with ATP, thereafter linking this residue to the side chain of the catalytic cysteine, yielding a NEDD8-UBA3 thioester and free AMP. E1 finally transfers NEDD8 to the catalytic cysteine of UBE2M. Recombinant human UBA3 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.

Form:Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 1mM DTT

Molecular Weight:54.4 kDa (487aa)

Sequences:

MGSSHHHHHSSGLVPRGSHMGSHMADGEEPERKRRRIEELLAEKMAVDGGCGDTGDWEGRWNVKFLERS
GPFTHPDFEPSTESLQFLLDTCVKLVIGAGGLGCELLKNLALSGFRQIHVIDMTIDVSNLNRQFLFRPKDIGRPKAE
VAAEFLNDRVPNCNVVPHFNKIQDFNDTFYRQFHIIVCGLDSIIARRWINGMLISLLNYEDGVLDPSSIVPLIDGGTEG
FKGNARVILPGMTACIECTLELYPPQVNFPMCTIASMPRLPEHCIEYVRMLQWPKEQPFGEVPLDGDDEPHIQWIF
QKSLERASQYNIRGVTYRLTQG VVKRIIPAVASTNAVIAAVCATEVFKIATSAYIPLNNYLVFNDVDGLYTYTFEAERK
ENCPACSQLPQNIQFSPSAKLQEVLDYLTNSASLQMKSPAITATLEGKNRTLYLQSVTSIEERTRPNLSKTLKELGLV
DGQELAVADVTPQT VLFKLHFTS

Purity:> 95% by HPLC

Concentration:1 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

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