
Product Data Sheet

Product Name: UBA3 Human

Cat. No.: GP22341

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	NEDD8-activating enzyme E1 catalytic subunit; NEDD8-activating enzyme E1C; Ubiquitin-activating enzyme E1C; Ubiquitin-like modifier-activating enzyme 3; Ubiquitin-activating enzyme 3; UBA3; UBE1C; hUBA3.		
Amino Acid Sequence	<p>MGSSHHHHHH SSGLVPRGSH MGSHMADGEE PERKRRRIEE LLAEKMAVDG GCGDTGDWEG RWNHVKKFLE RSGPFTHPDF EPSTESLQFL LDTCKVLVIG AGGLGCELLK NLALSGFRQI HVIDMDTIDV SNLNRQFLFR PKDIGRPKAE VAAEFLNDRV PNCNVVPHFN KIQDFNDFY RQFHIIVCGL DSIIARRWIN GMLISLLNYE DGVLDPSSIV PLIDGGTEGF KGNARVILPG MTACIECTLE LYPPQVNFPM CTIASMPRLP EHCIEYVRML QWPKEQPFGE GVPLDGDDPE HIQWIFQKSL ERASQYNIRG VTYRLTQGVV KRIIPAVAST NAVIAAVCAT EVFKIATSAY IPLNNYLVFN DVDGLYTYTF EAERKENCPC CSQLPQNIQF SPSAKLQEV L DYL TNSASLQ MKSPAITATL EGKNRTLYLQ SVTSIEERTR PNLSKTLKEL GLVDGQELAV ADVTTPQTVL FKLHFTS.</p>		
Formulation	The UBA3 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 20% glycerol and 1mM DTT.		

Introduction

NEDD8-activating enzyme E1 catalytic subunit (UBA3) is the catalytic subunit of the dimeric UBA3-NAE1 E1 enzyme, which belongs to the E1 ubiquitin-activating enzyme family. E1 activates NEDD8 by initially adenylating its C-terminal glycine residue with ATP, afterwards linking this residue to the side chain of the catalytic cysteine, generating a NEDD8-UBA3 thioester and free AMP. E1 at last transfers NEDD8 to the catalytic cysteine of UBE2M. The UBA3 enzyme connects with AppBp1, an amyloid beta precursor protein binding protein, to form a heterodimer, and at that point the enzyme complex

Caution: Product has not been fully validated for medical applications. For research use only.

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activates NEDD8, a ubiquitin-like protein, which controls cell division, signaling and embryogenesis.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

UBA3 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 487 amino acids (1-463) and having a molecular mass of 54.4kDa. UBA3 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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