

## Product datasheet for **AR50250PU-N**

### UBA3 / UBE1C (1-463, His-tag) Human Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	UBA3 / UBE1C (1-463, His-tag) human recombinant protein, 0.5 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	<u>MGSSHHHHHH</u> <u>SSGLVPRGSH</u> <u>MGSH</u> MADGEE PERKRRRIEE LLAEKMAVDG GCGDTGDWEG RWNHVKKFLE RSGPFTHPDF EPSTESLQFL LDTCKVLVIG AGGLGCELLK NLALSGFRQI HVIDMDTIDV SNLNRQFLFR PKDIGRPKAE VAAEFLNDRV PNCNVVPHFN KIQDFNDTFY RQFHIIVCGL DSIARRWIN GMLISLLNVE DGVLPDSSIV PLIDGGTEGF KGNARVILPG MTACIECTLE LYPPQVNFPM CTIASMPRLP EHCIEYVRML QWPKEQPFGE GVPLDGDDPE HIQWIFQKSL ERASQYNIRG VTYRLTQGVV KRIIPAVAST NAVIAAVCAT EVFKIATSAY IPLNNYLVFN DVDGLYTYTF EAERKENCPA CSQLPQNIQF SPSAKLQEV L DYLNSASLQ MKSPAITATL EGKNRTLYLQ SVTSIEERTR PNL SKTLKEL GLVDGQELAV ADVTTPQTVL FKLHFTS
Tag:	His-tag
Predicted MW:	54.4 kDa
Concentration:	lot specific
Purity:	>90% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 1 mM DTT
Preparation:	Liquid purified protein
Protein Description:	Recombinant human UBA3 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	<u>NP_003959</u>
Locus ID:	9039
UniProt ID:	<u>Q8TBC4</u>



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**Cytogenetics:** 3p14.1

**Synonyms:** hUBA3; NAE2; UBE1C

**Summary:** 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 associates with AppBp1, an amyloid beta precursor protein binding protein, to form a heterodimer, and then the enzyme complex activates NEDD8, a ubiquitin-like protein, which regulates cell division, signaling and embryogenesis. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

**Protein Pathways:** Ubiquitin mediated proteolysis