

Ubiquitin Activating Enzyme E1 Recombinant Protein | UBA1 recombinant protein

Ubiquitin Activating Enzyme E1 (human), (recombinant) (His-tag)

CATALOG # AAA77053	HOST E Coli
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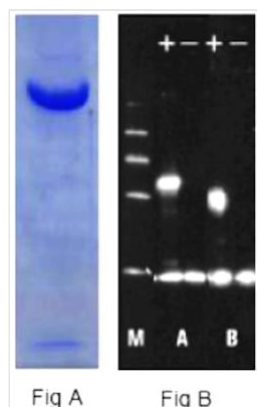
PRODUCT SYNONYMS

Ubiquitin Activating Enzyme E1; Ubiquitin Activating Enzyme E1 (human); (recombinant) (His-tag); UBA1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	>90% (SDS-PAGE) Purified by multi-step chromatography
Form/Format	Liquid. In 50mM TRIS-HCl, pH 7.5, containing 1.0mM DTT.
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	For long term storage, store at -80°C. Avoid freeze/thaw cycles Shipping: Shipped on Dry Ice

IMAGES



SDS-PAGE

Figure A: Product purity determined by Coomassie staining following SDS-PAGE

Figure B: Western Blot of thioester assays (TE +ve/-VE controls) for E2 conjugating enzymes.

Biotinylated-ubiquitin-enzyme conjugates were detected by western blotting on thioester assays containing: A: UbchH2, B: UbchH8, respectively, using Streptavidin-HRP detection system. M: Biotinylated SDS molecular weight markers (Sigma, SDS-6B) from bottom: 20.1, 29.0, 39.8, 58.1 kDa

ADDITIONAL INFORMATION

Related Product Information for UBA1 recombinant protein

Ubiquitin activating enzyme E1 is responsible for the first step in ubiquitin-protein isopeptide bond formation and is a critical component for the initiation of in vitro conjugation reactions. E1 activates ubiquitin by first adenylating with ATP the C-terminal glycine carboxyl group of ubiquitin and, thereafter, linking this residue to the sulphhydryl side chain moiety of a cysteine residue in E1 by forming a high energy thiol ester bond and liberating free AMP. There are two active sites within the E1 molecule allowing it to accommodate two ubiquitin molecules at one time, with a new ubiquitin forming an adenylate intermediate as the previous one is transferred to the thiol site. The activated ubiquitin is then transferred to the lysine of target proteins via the E2/E3 conjugation cascade.

Product Categories/Family for UBA1
recombinant protein

Cellular Analysis; Stem Cells; Proteostasis; Protein Synthesis & Folding; Posttranslational Modifications;
Ubiquitin & UBL Signaling

NCBI AND UNIPROT INFORMATION

NCBI GI #	24418865
NCBI GeneID	7317
UniProt Accession #	P22314; Q5JRR8; Q96E13
Molecular Weight	118 kDa
NCBI Official Full Name	Ubiquitin-like modifier-activating enzyme 1
NCBI Official Synonym Full Names	ubiquitin-like modifier activating enzyme 1
NCBI Official Symbol	UBA1
NCBI Official Synonym Symbols	A1S9; A1ST; GXP1; UBE1; A1S9T; AMCX1; POC20; SMAX2; UBA1A; UBE1X; CFAP124
NCBI Protein Information	ubiquitin-like modifier-activating enzyme 1; POC20 centriolar protein homolog; UBA1, ubiquitin-activating enzyme E1 homolog A; A1S9T and BN75 temperature sensitivity complementing
UniProt Protein Name	Ubiquitin-like modifier-activating enzyme 1
UniProt Gene Name	UBA1
UniProt Synonym Gene Names	A1S9T; UBE1
UniProt Entry Name	UBA1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/uba1-recombinant-protein-e-coli/77053>