Ubiquitin-Like Modifier-Activating Enzyme 1 (UBA1) Rabbit Recombinant Protein

PRODUCT OVERVIEW

Product Name	Ubiquitin-like modifier-activating enzyme 1 (UBA1), Recombinant Protein
Full Product Name	Recombinant Rabbit Ubiquitin-like modifier-activating enzyme 1 (UBA1), partial
Product Gene Name	UBA1 recombinant protein
Product Synonym Gene Name	UBA1
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	117,688 Da
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q29504
Species	Rabbit
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for UBA1 recombinant protein	This protein catalyzes the first step in ubiquitin conjugation to mark cellular proteins for degradation. This gene complements an X-linked mouse temperature-sensitive defect in DNA synthesis, and thus may function in DNA repair. It is part of a gene cluster on chromosome Xp11.23. Alternatively spliced transcript variants that encode the same protein have been described.
Other Notes	Small volumes of UBA1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for UBA1 purchase	MBS1344665 is a recombinant protein targeting UBA1. Also known as Recombinant Rabbit Ubiquitin-like modifier-activating enzyme 1 (UBA1), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for UBA1. It may not necessarily be applicable to this product.

NCBI GI #	126722847
NCBI GeneID	100009225
NCBI Accession #	NP_001075840.1
UniProt Primary Accession #	Q29504
UniProt Related Accession #	Q29504
GenBank Nucleotide #	NM_001082371.2

NCBI Official Full Name	ubiquitin-like modifier-activating enzyme 1
NCBI Official Symbol	UBA1
UniProt Protein Name	Ubiquitin-like modifier-activating enzyme 1
UniProt Synonym Protein Names	Ubiquitin-activating enzyme E1
Protein Family	Ubiquitin-activating enzyme
UniProt Gene Name	UBA1
UniProt Synonym Gene Names	UBE1
NCBI Protein Information	ubiquitin-like modifier-activating enzyme 1
UniProt Comments for UBA1	Catalyzes the first step in ubiquitin conjugation to mark cellular proteins for degradation through the ubiquitin-proteasome system. Activates ubiquitin by first adenylating its C-terminal glycine residue with ATP, and thereafter linking this residue to the side chain of a cysteine residue in E1, yielding a ubiquitin-E1 thioester and free AMP (PubMed:9322736). Essential for the formation of radiation-induced foci, timely DNA repair and for response to replication stress. Promotes the recruitment of TP53BP1 and BRCA1 at DNA damage sites ().
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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