Ubiquitin Carboxyl-Terminal Hydrolase Isozyme L3 (UCHL3) Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	Ubiquitin carboxyl-terminal hydrolase isozyme L3 (Uchl3), Recombinant Protein
Full Product Name	Recombinant Rat Ubiquitin carboxyl-terminal hydrolase isozyme L3 (Uchl3)
Product Gene Name	Uchl3 recombinant protein
Product Synonym Gene Name	Uchl3
Sequence	MEGQRWLPLE ANPEVTNQFL KQLGLHPNWQ FVDVYGMEPE LLSMVPRPVC AVLLLFPITE KYEVFRTEEE EKIKSQGQDV TSSVYFMKQT ISNACGTIGL IHAIANNKDK MHFESGSALK KFLEESVAMS PEERARHLEN YDAIRVTHET SAHEGQTEAP SIDEKVDLHF IALVHVDGHL YELDGRKPFP INHGKTSDET LLEDAIEVCK KFMERDPDEL RFNAIALSAA
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	26,124 Da
Sequence Positions	1-230, full length protein
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 Q91Y78
Species	Rat
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Uchl3 recombinant protein	MBS1437251 is a recombinant protein targeting Uchl3. Also known as Recombinant Rat Ubiquitin carboxyl-terminal hydrolase isozyme L3 (Uchl3). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Uchl3 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Uchl3. It may not necessarily be applicable to this product.

NCBI GI #	158749588
NCBI GeneID	498560
NCBI Accession #	NP_001103635.1
UniProt Primary Accession #	Q91Y78
UniProt Related Accession #	Q91Y78

GenBank Nucleotide #	NM_001110165.1
NCBI Official Full Name	ubiquitin carboxyl-terminal hydrolase isozyme L3
NCBI Official Synonym Full Names	ubiquitin C-terminal hydrolase L3
NCBI Official Symbol	Uchl3
NCBI Official Synonym Symbols	RGD1561196
UniProt Protein Name	Ubiquitin carboxyl-terminal hydrolase isozyme L3
UniProt Synonym Protein Names	Ubiquitin thioesterase L3
Protein Family	Ubiquitin carboxyl-terminal hydrolase
UniProt Gene Name	Uchl3
UniProt Synonym Gene Names	UCH-L3
NCBI Protein Information	ubiquitin carboxyl-terminal hydrolase isozyme L3
NCBI Summary for Uchl3	mouse homolog is an enzyme involved in proteolytic processing of polymeric ubiquitin [RGD, Feb 2006]
UniProt Comments for Uchl3	Deubiquitinating enzyme (DUB) that controls levels of cellular ubiquitin through processing of ubiquitin precursors and ubiquitinated proteins. Thiol protease that recognizes and hydrolyzes a peptide bond at the C-terminal glycine of either ubiquitin or NEDD8. Has a 10-fold preference for Arg and Lys at position P3, and exhibits a preference towards 'Lys-48'-linked ubiquitin chains. Deubiquitinates ENAC in apical compartments, thereby regulating apical membrane recycling. Indirectly increases the phosphorylation of IGFIR, AKT and FOXO1 and promotes insulin-signaling and insulin-induced adipogenesis. Required for stress-response retinal, skeletal muscle and germ cell maintenance. May be involved in working memory. Can hydrolyze UBB(+1), a mutated form of ubiquitin which is not effectively degraded by the proteasome ().
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