

Recombinant Human YOD1, His-tagged

Cat. No. YOD1-7575H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human YOD1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	1-348aa
Antigen Description	YOD1 is a highly conserved deubiquitinating enzyme of the ovarian tumor (otubain) family, whose function has yet to be assigned in mammalian cells. YOD1 is a constituent of a multiprotein complex with p97 as its nucleus, suggesting a functional link to a pathway responsible for the dislocation of misfolded proteins from the endoplasmic reticulum. Expression of a YOD1 variant deprived of its deubiquitinating activity imposes a halt on the dislocation reaction, as judged by the stabilization of various dislocation substrates.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 30% glycerol, 1mM DTT
Molecular Mass	40.7 kDa (371aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMFGPAKG RHFGVHPAPG FPGGVSQQAA GTKAGPAGAW PVGSRTDTMW RLRCKAKDGT HVLQGLSSRT RVRELQGQIA AITGIAPGGQ RILVGYPPEC LDLSNGDTIL EDLPIQSGDM LIIEEDQTRP

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RSSPAFTKRG ASSYVRETLP VLTRTVVPAD NSCLFTSVYY VVEGGVLNPA
 CAPEMRRRIA QIVASDPDFY SEAILGKTNQ EYCDWIKRDD TWGGAIEISI
 LSKFYQCEIC VVDTQTVRID RFGEDAGYTK RVLLIYDGIH YDPLQRNFPD
 PDTPLTIFS SNDDIVLVQA LELADEARRR RQFTDVNRFT LRCMVCQKGL
 TGQAEAREHA KETGHTNFGE V

Purity >90% as determined by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Concentration 0.25 mg/ml

GENE INFORMATION

Gene Name [YOD1?YOD1 OTU deubiquinating enzyme 1 homolog \(S. cerevisiae\) \[?Homo sapiens?\]](#)

Official Symbol YOD1

Synonyms YOD1; DUBA8; OTUD2; PRO0907; RP11-164O23.1; ubiquitin thioesterase OTU1; HIN-7; DUBA-8; hsHIN7; OTU domain containing 2; OTU domain containing 2; OTU domain-containing protein 2; YOD1 OTU deubiquinating enzyme 1 homolog (yeast); EC 3.1.2; YOD1 OTU deubiquinating enzyme 1 homolog (S. cerevisiae); EC 3.4.19.12

Gene ID [55432](#)

mRNA Refseq [NM_018566](#)

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Protein Refseq	NP_061036
MIM	612023
UniProt ID	Q5VVQ6
Chromosome Location	1q32.2
Pathway	Protein processing in endoplasmic reticulum
Function	protein binding; ubiquitin-specific protease activity; zinc ion binding

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