

Recombinant human YOD1 protein

Catalog Number: ATGP2019

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-348aa

UniProt No.

Q5VVQ6

NCBI Accession No.

NP_061036.3

Alternative Names

ubiquitin thioesterase OTu1, ubiquitin thioesterase OTu1, DuBA8, OTuD2, PRO0907, RP11-164O23.1

PRODUCT SPECIFICATION

Molecular Weight

40.7 kDa (371aa) confirmed by MALDI-TOF

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 30% glycerol, 1mM DTT

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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. Recombinant human YOD1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional

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chromatography techniques.

Amino acid Sequence

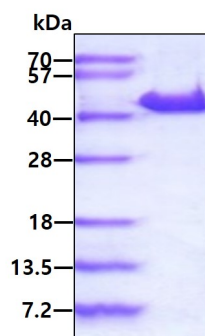
<MGSSHHHHHH SSGLVPRGSH MGS>MFGPAKG RHFGVHPAPG FPGGVSQQAA GTKAGPAGAW PVGSRTDTMW
RLRCKAKDGT HVLQGLSSRT RVRELQGQIA AITGIAPGGQ RILVGYPEC LDLSNGDTIL EDLPIQSGDM LIIEDQTRP
RSSPAFTKRG ASSYVRETLV VLTRTVVPAD NSCLFTSVYY VVEGGVLNPA CAPEMRRRIA QIVASDPDFY SEAILGKTNQ
EYCDWIKRDD TWGGAIEISI LSKFYQCEIC VVDTQTVRID RFGEDAGYTK RVLLIYDGIH YDPLQRNFPD PDTPLTIFS
SNDDIVLVQA LELADEARRR RQFTDVNRFT LRCMVCQKGL TGQAEAREHA KETGHTNFGV

General References

Ernst,R., et al. (2009) Mol. Cell 36 (1), 28-38

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.