

Active Recombinant Human YOD1, GST-tagged

Cat. No. YOD1-177H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human YOD1 (amino acid residues 1-348), fused with N-terminal His, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	1-348 a.a.
Description	OTU enzymes play important roles as negative-feedback regulators in NF-κB signalling, interferon signalling and in p97 (cdc48)-mediated processes although the cellular functions of most OTU enzymes remain to be discovered. Ovarian tumour family DUBs contain a papain-like catalytic core of ~180 amino acids. In addition to their catalytic domain, many OTU members have additional ubiquitin-binding domains (UBDs). At least 20 different UBD families have been described, and knowledge of linkage-specific UBDs have provided the means to understand the roles of different ubiquitin linkages in cells (Licchesi et al., 2012).
Form	50 mM HEPES pH 7.5, 150 mM sodium chloride, 2 mM dithiothreitol, 10% glycerol
Bio-activity	Deubiquitylase Enzyme Assay: The activity of GST-OTU1 was validated by determining the increase in fluorescence measured as a result of the enzyme catalysed cleavage of the fluorogenic substrate Ubiquitin-Rhodamine110-Glycine generating Ubiquitin and Rhodamine110-Glycine. Incubation of the substrate in the presence or absence of GST-OTU1 was compared confirming the deubiquitylating

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activity of GST-OTU1.

Molecular Mass	~65 kDa
Purity	>98% by SDS-PAGE
Storage	12 months at -70°C. Avoid multiple freeze/thaw cycles.
Concentration	0.5 mg/ml

GENE INFORMATION

Gene Name	YOD1 YOD1 OTU deubiquinating enzyme 1 homolog (<i>S. cerevisiae</i>) [<i>Homo sapiens</i>]
Official Symbol	YOD1
Synonyms	DUBA8; OTUD2; PRO0907; RP11-164O23.1
Gene ID	55432
mRNA Refseq	NM_018566.3
Protein Refseq	NP_061036.3
MIM	612023
UniProt ID	Q5VVQ6
Chromosome Location	1q32.2

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Pathway	Protein processing in endoplasmic reticulum, organism-specific biosystem;Protein processing in endoplasmic reticulum, conserved biosystem;
Function	protein binding;ubiquitin-specific protease activity;zinc ion binding;

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