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**Product Data Sheet**


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Product Name: YOD1 Human  
 Cat. No.: GP22406  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	DUBA8; OTUD2; PRO0907; RP11-164023.1; Ubiquitin thioesterase OTU1; DUBA-8; HIN-7; HsHIN7; OTU domain-containing protein 2.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMFGPAKG RHFGVHPAPG FPGGVSQQAA GTKAGPAGAW PVGSRTDTMW RLRCKAKDGT HVLQGLSSRT RVRELQGQIA AITGIAPGGQ RILVGYPPEC LDLSNGDTIL EDLPIQSGDM LIIEDQTRP RSSPAFTKRG ASSYVRETLV VLTRTVVPAD NSCLFTSVYY VVEGGVLNPA CAPEMRRRIA QIVASDPDFY SEAILGKTNQ EYCDWIKRDD TWGGAIEISI LSKFYQCEIC VVDTQTVRID RFGEDAGYTK RVLLIYDGIH YDPLQRNFPD PDTPLTIFS SNDDIVLVQA LELADEARRR RQFTDVNRFT LRCMVCQKGL TGQAEAREHA KETGHTNFGE V.		
Formulation	The YOD1 solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 30% glycerol and 1mM DTT.		

**Introduction**

YOD1 is a Hydrolase which removes conjugated ubiquitin from proteins and takes part in endoplasmic reticulum-associated degradation (ERAD) for misfolded luminal proteins. YOD1 is a highly conserved deubiquitinating enzyme belonging to the ovarian tumor (otubain) family, whose function has yet to be determined in mammalian cells. YOD1 is a component of a multiprotein complex with p97 as its nucleus, proposing a functional link to a pathway responsible for the dislocation of misfolded proteins from the endoplasmic reticulum. YOD1 variant expression deprived of its deubiquitinating activity compels a halt on the dislocation reaction, as concluded by the stabilization of various dislocation substrates.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer

**Caution: Product has not been fully validated for medical applications. For research use only.**

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

YOD1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 371 amino acids (1-348) and having a molecular mass of 40.7kDa. YOD1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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