

YOD1, 1-348aa, Human, His tag, E.coli

Cat.NO.: TP04522

3th Edition

Synonyms:Ubiquitin thioesterase OTU1 , DUBA8, OTUD2, PRO0907, RP11-164O23.1

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 chromatography techniques.

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

Molecular Weight:40.7 kDa (371aa) confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMGSMFGPAKGRHFGVHPAPGFPGGVSQQAAGTKAGPAGAWPVGSRTDTMWR
LRCKAKDGTHVLQGLSSRTRVRELQGQIAAITGIAPGGQRILVGYPPPECLDLSNGDTILEDLPIQSGDMLIIEEDQTRP
RSSPAFTKRGASSYVRETLPLVLRTRTVVPADNSCLFTSVVYVVEGGVLNPACAPEMRRLIAQIVASDPDFYSEAILGK
TNQEYCDWIKRDDTWGGAIEISILSKFYQCEICVVDTQTVRIDRFGEDAGYTKRVLLIYDGIHYDPLQRNFPDPDTPP
LTISSNDDIVLVQALELADEARRRRQFTDVNRFTLRMCVCQKGLTGQAEAREHAKETGHTNFGEV

Purity:> 95% by HPLC

Concentration:0.25 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

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.