Active Recombinant Human JOSD1, His-tagged

Cat. No. JOSD1-175H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human JOSD1 (amino acid residues 1-202), fused with N-terminal His, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	1-202 a.a.
Description	JOSD1 is a cysteine protease and a member of the Machado-Joseph Domain (MJD) enzyme family. Cloning of the human gene was first described by Nomura et al. (1994). The Josephin domain is a conserved cysteine protease domain found in four human deubiquitylating enzymes: ataxin-3, the ataxin-3-like protein (Ataxin-3L), Josephin-1 (JOSD1), and Josephin-2 (JOSD2). Two of the human Josephin proteins, ataxin-3 and ataxin-3L, each contain a single Josephin domain at their N-terminus plus a flexible C-terminal domain of comparable length. JOSD1 and JOSD2, on the other hand, are each composed solely of a single Josephin domain (Weeks et al., 2011).
Form	50 mM HEPES pH 7.5, 150 mM sodium chloride, 2 mM dithiothreitol, 10% glycerol
Bio-activity	Deubiquitylase Enzyme Assay: The activity of His-JOSD1 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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	presence or absence of His-JOSD1 was compared confirming the deubiquitylating activity of His-JOSD1.
Molecular Mass	~26 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	JOSD1 Josephin domain containing 1 [Homo sapiens]
Official Symbol	JOSD1
Synonyms	JOSD1; Josephin domain containing 1; Josephin-1; KIAA0063; josephin domain-containing 1; dJ508I15.2;
Gene ID	9929
mRNA Refseq	NM_014876
Protein Refseq	NP_055691
UniProt ID	Q15040
Chromosome Location	22q13.1
Function	omega peptidase activity; peptidase activity;

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA