Active Recombinant Human JOSD2, His-tagged

Cat. No. JOSD2-176H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human JOSD2 (amino acid residues 1-188), fused with N-terminal His, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	1-188 a.a.
Description	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). JOSD1 and JOSD2 have been shown to possess DUB activity although details of their substrate specificity are still largely unknown (Tzvetkov and Breuer, 2007).
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-JOSD2 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 His-JOSD2 was compared confirming the deubiquitylating

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	activity of His-JOSD2.
Molecular Mass	~23 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	JOSD2 Josephin domain containing 2 [Homo sapiens]
Official Symbol	JOSD2
Synonyms	JOSD2; Josephin domain containing 2; Josephin-2; SBBI54; josephin domain-containing protein 2; FLJ29018;
Gene ID	126119
mRNA Refseq	NM_138334
Protein Refseq	NP_612207
UniProt ID	Q8TAC2
Chromosome Location	19q13.33
Function	omega peptidase activity; peptidase activity; ubiquitin-specific protease activity;

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