Recombinant Human SENP1 Catalytic Domain, His-tagged

Cat. No. SENP1-688H **Lot. No.** (See product label)

SPECIFICATION

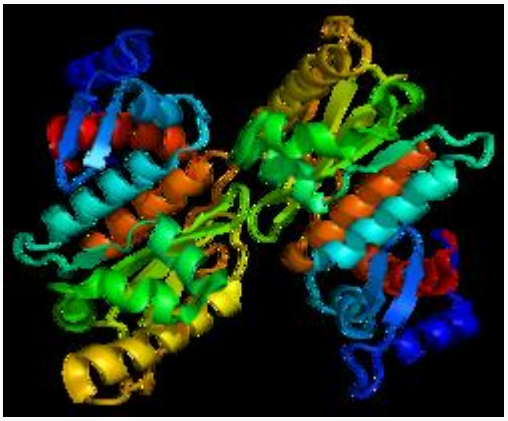
Product Overview	Recombinant, human SENP1 Catalytic Domain consistingof amino acids 415-643 was fused with a His Tag.
Species	Human
ProteinLength	415-643 a.a.
Description	The covalent modification of proteins by SUMO is reversibleand is mediated by SENP enzymes. SENPs cleave residues from the C-terminus ofSUMO precursor proteins to generate the mature and active form which containsthe conserved C-terminal di-glycine. These enzymes also reverse the processof SUMOylation by removing poly-SUMO conjugates from substrate proteins.SENP1 is active against SUMO-1, SUMO-2 and SUMO-3 in vitro but not ubiquitinor NEDD8.
MolecularWeight	29.8 kDa
Stock	In 50 mM Hepes pH 8.0, 100 mM NaCl, 10% glycerol, 5 mM DTT.
Purity	> 95% bySDS-PAGE
Use	Typical enzymeconcentration to support hydrolysis of substrates in vitro is 50-500 nM depending onconditions. Pre-incubation (15 min) with 10 mM DTT isrecommended toachieve maximum activity
Storage	Store at-80°C. Avoid multiple freeze/thaw cycles.

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

GENE INFORMATION

Gene Name	SENP1SUMO1/sentrin specific peptidase 1 [Homo sapiens]
Official Symbol	SENP1
Synonyms	SENP1; SUMO1/sentrin specific peptidase 1; SuPr-2;sentrin-specific protease 1; SUMO1/sentrin specific protease 1;sentrin/SUMO-specific protease SENP1
Gene ID	29843
mRNA Refseq	NM_014554
Protein Refseq	NP_055369
MIM	612157
UniProt ID	Q9P0U3
Chromosome Location	12q13.1
Pathway	Androgen Receptor Signaling Pathway; Regulationof Androgen receptor activity
Function	cysteine-typepeptidase activity; endopeptidase activity; peptidase activity

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