

Recombinant Human SENP1 Catalytic Domain, His-tagged

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

SPECIFICATION

Product Overview	Recombinant, human SENP1 Catalytic Domain consisting of amino acids 415-643 was fused with a His Tag.
Species	Human
Protein Length	415-643 a.a.
Description	The covalent modification of proteins by SUMO is reversible and is mediated by SENP enzymes. SENPs cleave residues from the C-terminus of SUMO precursor proteins to generate the mature and active form which contains the conserved C-terminal di-glycine. These enzymes also reverse the process of SUMOylation by removing poly-SUMO conjugates from substrate proteins. SENP1 is active against SUMO-1, SUMO-2 and SUMO-3 in vitro but not ubiquitin or NEDD8.
Molecular Weight	29.8 kDa
Stock	In 50 mM Hepes pH 8.0, 100 mM NaCl, 10% glycerol, 5 mM DTT.
Purity	> 95% by SDS-PAGE
Use	Typical enzyme concentration to support hydrolysis of substrates in vitro is 50-500 nM depending on conditions. Pre-incubation (15 min) with 10 mM DTT is recommended to achieve maximum activity
Storage	Store at -80°C. Avoid multiple freeze/thaw cycles.

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GENE INFORMATION

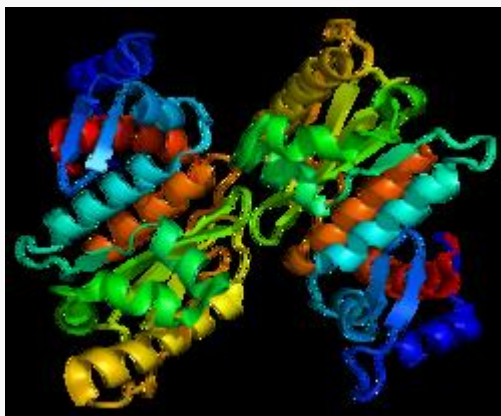
Gene Name	SEN1SUMO1/sentrin specific peptidase 1 [Homo sapiens]
Official Symbol	SEN1
Synonyms	SEN1; SUMO1/sentrin specific peptidase 1; SuPr-2;sentrin-specific protease 1; SUMO1/sentrin specific protease 1;sentrin/SUMO-specific protease SEN1
Gene ID	29843
mRNA Refseq	NM_014554
Protein Refseq	NP_055369
MIM	612157
UniProt ID	Q9P0U3
Chromosome Location	12q13.1
Pathway	Androgen Receptor Signaling Pathway; Regulation of Androgen receptor activity
Function	cysteine-type peptidase activity; endopeptidase activity; peptidase activity

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