Lot # XXXXX

BostonBiochem

MATERIAL DATA SHEET

His_6-SENP2 Catalytic Domain, *human recombinant*
Cat. # E-710

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. SENP2 is active against SUMO-1, SUMO-2 and SUMO-3 *in vitro* but not ubiquitin or NEDD8. N-terminally tagged SENP2 contains the catalytic domain consisting of residues 368-593. Accession # NP_067640.

Product Information	
Quantity:	50 µg
Stock:	X mg/ml (X mM) in 50 mM Hepes pH 8.0, 100 mM NaCl, 10% glycerol, 5 mM DTT. Concentration will vary with specific Lot #.
MW:	28.7 kDa
Purity:	> 95% by SDS-PAGE

Use & Storage	
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.

Literature

References:

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Chen J., *et al.* (2005) J.Biol.Chem. **280**: 14492-14498
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Kim Y.H., *et al.* (2005) FEBS Lett.. **579**: 6272-6278
Xu K., *et al.* (2005) Biochem. J. **386**: 325-330
Yamaguchi T., *et al.* (2005) Mol. Cell. Biol. **12**:5171-5182

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