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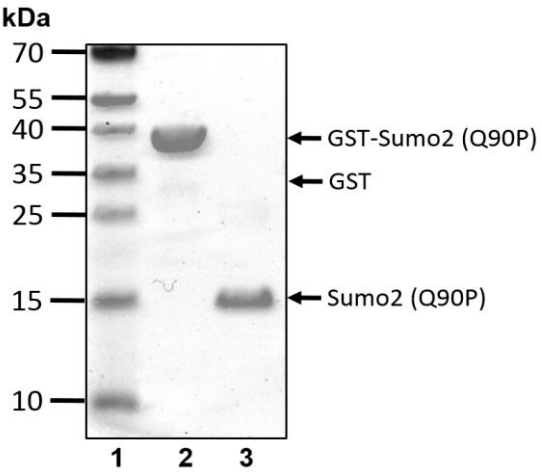
Sumo 2 (Q90P)

Cat. # E3230

Also Known as: HSMT3; SMT3B; SUMO3; Smt3A; SMT3H2; MGC117191
NCBI Reference: NM_006937
MW (no tag): 10.9 kDa
Species: Human
Source: Bacterial recombinant
Tag: No
Stock Buffer: 20 mM Tris, 150 mM NaCl, 2 mM βME, 10% Glycerol
Concentration: See tube label
Quality Assurance: ~90% by SDS-PAGE

Image



Coomassie-stained SDS-PAGE
Lane 1: Molecular weight markers
Lane 2: 5 µg purified GST-Sumo 2 (Q90P)
Lane 3: 5 µg purified Sumo 2 (Q90P)

Description: SUMO (small Ub-related modifier) is a Ub-like protein. Three types of SUMO are most commonly studied, SUMO 1, SUMO 2, and SUMO 3. SUMO 2 and SUMO 3 are almost identical isoforms and thus share many functions. Like Ub, SUMO can be conjugated to its target proteins as a polymeric chain. However, SUMO 1 forms chains inefficiently as compared to SUMO 2 and SUMO 3. SUMO is conjugated to target proteins by the E1 (SAE1/SAE2), E2 (Ube2I or Ubc9), E3 (RanBP2/Nup358, amongst others). Protein sumoylation is involved in many cellular processes including gene transcription.

The SUMO2(Q90P) mutant can still form polySUMO2 chains, but these chains are often resistant to desumolyation.

Storage: Store at -80°C; avoid multiple freeze-thaw cycles
Note: N/A
Literature:

1. Boddy MN, *et al* . (1996) Oncogene 13, 971 – 982.
2. Bayer P, *et al* . (1998) J Mol Biol 280, 275 – 286.
3. Melchior F, (2000) Annu Rev Cell Dev Biol 16, 591 – 626.
4. Praefcke GJK, *et al* . (2012) Trends Biochem Sci 37(1), 23 – 31.
5. Werner A, *et al* . (2012) Mol Cell 46(3), 287 – 298.