SUMO activating enzyme E1 (human), (recombinant)

SUMO conjugation to target proteins is mediated by a different, but analogous, pathway to ubiquitinylation. SUMO activating enzyme is a heterodimeric complex consisting of Aos1 and Uba2. Both subunits are well conserved from yeast to humans, with Aos2/SAE I being similar to the N-terminal half of the E1 enzyme for ubiquitin while Uba2/SAE II has similarity to the C-terminal half, and contains the active site cysteine residue required for formation of thioester bonds. However, Uba2 alone is not sufficient to catalyze SUMOylation. SUMO1 activating enzyme supports *in vitro* SUMOylation.

Citations: 5 View Online »

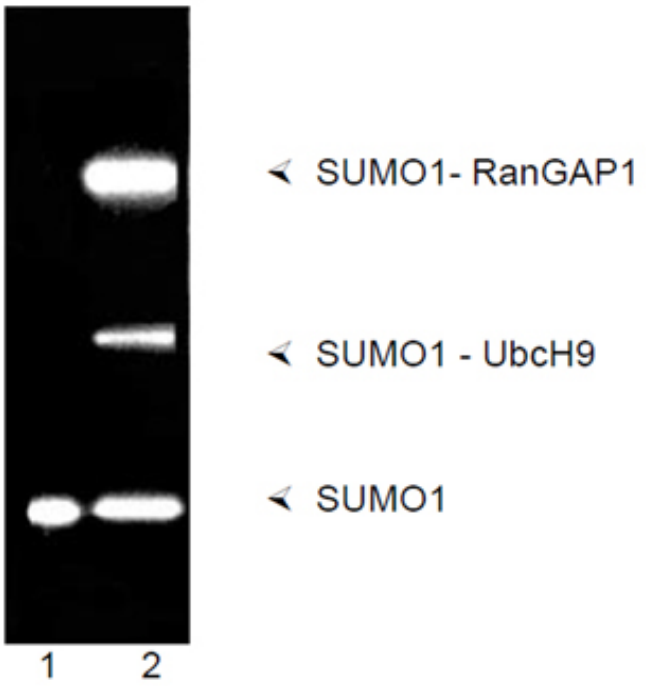
Ordering Information

Order Online »

BML-UW9330-0025	25µg

Manuals, SDS & CofA

View Online »



SUMOylation assay utilising SUMO-1, SUMO E1 (Prod. No. BML-UW9330), SUMO E2 (Prod. No. BML-UW9320) and RanGAP1 as target protein in presence (lane 2) and absence (lanes (1) of ATP after SDS-PAGE and blotting to PVDF with subsequent probing with Prod. No. BML-PW9460 (Anti-SUMO1).

SUMO E1 heterodimer by SDS-PAGE. Lane M: Markers, in kDa (from top to bottom), 205, 116, 97, 84, 66, 55, 45 and 36; Lane 1: SUMO E1 heterodimer, final product solution.

Handling & Storage

Long Term Storage	-80°C
Shipping	Dry Ice

Regulatory Status

RUO - Research Use Only

Product Details

Formulation	Liquid. In 20mM HEPES, pH 8.0, containing 110mM potassium acetate, 2mM magnesium acetate, 0.5mM EGTA and 1mM DTT.
MW	~38kDa and 90kDa
Source	Produced in *E. coli*. Full length heterodimeric human SUMO-activating enzyme.
UniProt ID	Q9UBE0 (subunit 1), O95605 (subunit 2)

ENZO LIFE SCIENCES, INC.
Phone: 800.942.0430
info-usa@enzolifesciences.com

European Sales Office
ENZO LIFE SCIENCES (ELS) AG
Phone: +41 61 926 8989
info-eu@enzolifesciences.com

Belgium, The Netherlands & Luxembourg
Phone: +32 3 466 0420
info-be@enzolifesciences.com

France
Phone: +33 472 440 655
info-fr@enzolifesciences.com

Germany
Phone: +49 7621 5500 526
info-de@enzolifesciences.com

UK & Ireland
Phone (UK customers): 0845 601 1488
Phone: +44 1392 825900
info-uk@enzolifesciences.com