

Sumo1 Conjugation Kit (Cat. # J3110)

* This kit is sufficient for setting up 25 x 20 µl reactions.

Description

Sumo1 Conjugation Kit is designed for assaying the conjugation of Sumo1 to protein substrates *in vitro*. In a protein sumoylation reaction, a Sumo protein is first activated by the Sumo activating enzyme SAE1/SAE2 (E1) in an ATP hydrolysis-dependent manner; activated Sumo is then transferred to the Sumo conjugating enzyme Ube2l (E2) by formation of a thiolester bond with the catalytic cysteine residue of Ube2l; Sumo-charged Ube2l can mediate protein sumoylation in the presence of an appropriate Sumo ligase (E3).

A typical 20 µl reaction contains 100 nM SAE1/SAE2, 2 µM 6xHis-Ube2l, 50 µM Sumo1, 4 mM ATP, 2 µM E3 (not supplied) and 2 µM protein substrate (no supplied) in the reaction buffer.

Components

- | | |
|---------------------------|--------|
| • 20X SAE1/SAE2 (2 µM) | 25 µl |
| • 20X 6xHis-Ube2l (40 µM) | 25 µl |
| • 10X Sumo1 (500 µM) | 50 µl |
| • 10X ATP (40 mM) | 60 µl |
| • 10X Reaction Buffer | 100 µl |

Note

1. 10X Reaction Buffer: 400 mM Tris, pH 7.1 at 37°C, 400 mM NaCl, 10 mM βME, 50 mM MgCl₂

