GST-SUMO E1 (SAE1/UBA2), *S. cerevisiae*  
Cat. # E-310 (GST-tagged)

Conjugation of the ubiquitin-like modifier SUMO requires the activities of the heterodimeric E1 (Aos1/Uba2) and the UbcH9 E2 enzyme. The dimeric activating enzyme utilizes ATP to adenylate the C-terminal glycine residue of SUMO-1 (also SUMO-2 and SUMO-3), forming a high-energy thiolester bond with the cysteine residue of Uba2 and the release of AMP and PPI. The second step is the trans-esterification reaction whereby SUMO-1 is transferred to Cys$^{93}$ of UbcH9.

### Product Information

| Quantity: | 50 µg |
| Stock: | X mg/ml (X µM) in 50 mM HEPES pH8.0, 150 mM NaCl. Actual concentration will vary with specific Lot #. |
| Purity: | > 90% by SDS-PAGE |
| MW: | 140 kDa |

### Use & Storage

**Use:** Typical enzyme concentration to support conjugation *in vitro* is 50-200 nM depending on conditions.

**Storage:** Store at –80°C. Avoid multiple freeze/thaw cycles.

### Literature


*For Laboratory Research Use Only, Not For Use in Humans*