

**MATERIAL DATA SHEET****SUMO Conjugation Peptide Substrate, *biotinylated***  
**Cat. # SP-300**

This biotinylated peptide contains a sumoylation consensus sequence and can be covalently conjugated to SUMO-1, SUMO-2 and SUMO-3 proteins in the presence of the E1 activating (SAE1/SAE2) and UbcH9 conjugating enzymes. The biotin group allows for convenient and sensitive detection with avidin-linked reagents.

SUMO modification of proteins occurs on lysine residues generally found within a short consensus sequence containing the  $\psi$ KXE motif. This motif consists of  $\psi$  which represents a large hydrophobic amino acid (isoleucine, leucine or valine), K is the lysine that becomes modified, X is any residue and E is glutamic acid. The glutamic acid is the most highly conserved position other than the lysine.

**Product Information**

<b>Quantity:</b>	20 $\mu$ g, lyophilized powder
<b>MW:</b>	1.53 kDa, (11 residues in length)
<b>Solubility:</b>	Soluble in aqueous buffer up to 5 mg/ml.
<b>Purity:</b>	$\geq$ 96.2 % by HPLC.

**Use & Storage**

<b>Use:</b>	Add stock to <i>in vitro</i> or <i>in vivo</i> assays at desired concentration. Recommended concentration range is 50-100 $\mu$ M depending on conditions.
<b>Storage:</b>	Store stock solution at -20°C. Avoid freeze/thaw cycles.

**Literature****References:**

- Johnson E.S. (2004) *Annu. Rev. Biochem.* **73**:355-382  
Okuma T., *et al.* (1999) *Biochem. Biophys. Res. Comm.* **254**:693-698  
Rodriguez M.S., *et al.* (2001) *J. Biol. Chem.* **276**:12654-12659  
Saitoh H. and Hinchey J. (2000) *J. Biol. Chem.* **275**:6252-6258  
Sampson D.A. *et al.* (2001) *J. Biol. Chem.* **276**:21664-21669  
Tatham M.H., *et al.* (2001) *J. Biol. Chem.* **276**:35368-35374

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