

MATERIAL DATA SHEET**SUMO-1 Agarose, *human recombinant*****Cat. # UL-740**

SUMO-1 is covalently coupled to agarose beads via primary amines allowing for a fully functional C-terminus. Useful for affinity binding of SUMO-1 activating enzyme, SUMO conjugating E2 enzyme Ubch9, SUMO-1 ligases, SUMO C-terminal hydrolases, and other proteins/enzymes that have an affinity for SUMO-1. The ubiquitin-like SUMO-1 is conjugated to a variety of proteins in the presence of Ubch9 and the SAE1/SAE2 activating enzyme. SUMO modification has been implicated in functions such as nuclear transport, chromosome segregation and transcriptional regulation.

Product Information**Quantity:** 0.5 ml**Stock:** [SUMO-1] = 5 mg/ml resin (431 μ M). SUMO-1 agarose is supplied in a 20% ethanol solution.**Use & Storage****Use:** Equilibrate resin by washing with 5-10 ml desired start buffer. Binding and elution of material is dependent on individual experimental conditions and goals.**Storage:** SUMO1-agarose can be re-used for at least 10-15 applications if properly maintained. After use, clean resin by washing with 10 ml 50 mM Tris-Cl pH9.0, 1 M KCl. Remove cleaning solution by equilibrating resin in 25 mM HEPES (or similar buffer) pH 7.5, containing either 1 mM NaN₃ or 10-20 % ethanol. Resin should be stored at 4°C. DO NOT FREEZE**Literature****References:** Desterro, J.M. *et al.* (1997) FEBs. Lett. **417**:297-300
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Yeh E.T.H. *et al.* (2000) Gene **248**:1-14***For Laboratory Research Use Only, Not For Use in Humans***