
MATERIAL DATA SHEET

SUMO1 Aminoluciferin, *human recombinant***Cat. # UL-704**

Substrate for SUMO deconjugating enzymes (SENPs) based on the C-terminal derivative of SUMO with aminoluciferin (AML). Rather than fluorescence as the indicator of SENP activity, SENP liberated luciferin is processed by luciferase to give a luminescence signal.

SUMO-AML not only produces a stronger signal, but also has an excellent signal to noise ratio over traditional fluorophores. This makes it possible to rapidly assess the activity of SENPs that poorly utilize SUMO-AMC while using much lower levels of the SENPs themselves.

Product Information

Quantity:	50 µg
MW:	11.3 kDa
Stock:	X mg/ml (X µM) in 50mM HEPES pH 7.5, 100mM NaCl
Purity:	>95%
Activity:	>100:1 signal to noise ratio with 10 pM SENP1. K_m of SENP1 for SUMO-1-AML is 88nM.

Use & Storage

Use:	SUMO-AML gives a strong luminescent signal in the range of 0.1-1 µM, depending on experimental conditions. Optimal luminescence at pH 7.5 is monitored using all wavelengths with a 500 ms integration time.
Storage:	Store at -80°C. Avoid multiple freeze/ thaw cycles.

Literature

References:	Reddy G., <i>et al.</i> (2010) <i>JACS</i> , 132 :39, 13586-13587 Shinde R., <i>et al.</i> (2006) <i>Biochemistry</i> 45 : 11103-11112
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