

**MATERIAL DATA SHEET****NEDD8-Aminoluciferin (AML), *human recombinant***  
**Cat. # UL-804**

Substrate for deconjugating enzymes (NEDPs) based on the C-terminal derivative of NEDD8 with aminoluciferin (AML). Rather than fluorescence as the indicator of NEDP activity, NEDP liberated luciferin is processed by luciferase to give a luminescence signal.

NEDD8-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 NEDPs that poorly utilize NEDD8-AMC while using much lower levels of the NEDPs themselves.

**Product Information**

<b>Quantity:</b>	50 µg
<b>MW:</b>	8.8 kDa
<b>Stock:</b>	X mg/ml (X µM) in 50mM HEPES pH 7.5, 100mM NaCl.
<b>Purity:</b>	>95%
<b>Activity:</b>	>100:1 signal to noise ratio with 10 pM NEDP1. $K_m$ of NEDP1 for NEDD8-AML is 69 nM.

**Use & Storage**

<b>Use:</b>	NEDD8-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.
<b>Storage:</b>	Store at -80°C. Avoid multiple freeze/ thaw cycles.

**Literature**

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