
MATERIAL DATA SHEET

Ubiquitin-Aminoluciferin (AML), *human recombinant*
Cat. # U-556

Substrate for deubiquitinating enzymes based on the C-terminal derivative of ubiquitin with aminoluciferin (AML). Rather than fluorescence as the indicator of DUB activity, DUB liberated luciferin is processed by luciferase to give a luminescence signal. Ub-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 DUBs that poorly utilize Ub-AMC while using much lower levels of the DUBs themselves.

Product Information

Quantity:	50 µg
MW:	8.8 kDa
Stock:	1.67 mg/ml (190 µM) in 50mM HEPES pH 7.5.
Purity:	>95%
Activity:	Over 100:1 signal to noise ratio with 10 pM UCH-L3.

Use & Storage

Use:	Ub-AML gives a strong luminescent signal in the range of 0.1-1 µM, depending on exact 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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