

Lot # XXXXX

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## MATERIAL DATA SHEET

### Ubiquitin-AMC, human recombinant

Cat. # U-550

Fluorogenic substrate for ubiquitin hydrolases based on the C-terminus derivatization of ubiquitin with 7-amido-4-methylcoumarin (AMC). Ubiquitin-AMC is an exquisitely sensitive substrate for UCH-L3 ( $K_m = 0.039 \mu\text{M}$ ) and for the Isopeptidase-T ( $K_m = 0.17 - 1.4 \mu\text{M}$ ). Ub-AMC is useful for studying ubiquitin hydrolases when detection sensitivity or continuous monitoring of activity is essential.

#### Product Information

<b>Quantity:</b>	50 $\mu\text{g}$
<b>Stock:</b>	X mg/ml (X $\mu\text{M}$ ) in 100 % DMSO
<b>MW:</b>	8.7 kDa
<b>Purity:</b>	> 95% by HPLC

#### Use & Storage

<b>Use:</b>	Recombinant Human Ubiquitin-AMC is a fluorogenic substrate for some Ubiquitin-specific isopeptidases. Release of AMC fluorescence can be monitored with an excitation wavelength of 345 nm and an emission wavelength of 445 nm. Reaction conditions will need to be optimized for each specific application. We recommend an initial Ubiquitin-AMC concentration of 0.1-1 $\mu\text{M}$ .
<b>Storage:</b>	Protect from light. Store at $-80^\circ\text{C}$ and avoid multiple freeze/thaw cycles.

#### Literature

<b>References:</b>	Dang L.C., <i>et al.</i> (1998) <i>Biochem.</i> <b>37</b> :1868-1879 Mason D.E., <i>et al.</i> (2004) <i>Biochem.</i> <b>43</b> :6535-6544 Stein R.L., <i>et al.</i> (1998) <i>Biochem.</i> <b>34</b> :12616-12623
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***For Laboratory Research Use Only, Not For Use in Humans***

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