

Lot # XXXXX

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MATERIAL DATA SHEET

HA-GATE-16/Apg8p2 AMC, *human recombinant* Cat. # UL-445

Fluorogenic substrate for Apg8-specific C-terminal hydrolases such as Apg4b (Cat# E-400) based on the C-terminal derivatization of Apg8 with 7-amido-4-methylcoumarin (AMC). Apg8-AMC is useful for studying such enzyme activities when detection sensitivity or continuous monitoring of activity is essential. NOTE: this protein has an N-terminal HA tag.

Product Information

Quantity:	25 µg
Stock:	X mg/ml (X µM) in 50 mM Hepes pH 6.5, 100 mM NaCl, 10 % glycerol. Concentration varies with Lot#.
MW:	14 kDa
Purity:	> 90%

Use & Storage

Use:	Substrate concentrations for assay range from 0.1-1 µM depending on conditions. Release of AMC fluorescence can be monitored using Ex ₃₈₀ nm and Em ₄₆₀ nm wavelengths respectively.
Storage:	Store at -80°C. Avoid multiple freeze/thaw cycles.

Literature

References:	Borodovsky A., <i>et al.</i> (2002) <u>Chem. Biol.</u> 9 :1149-1159 Hemelaar J., <i>et al.</i> (2003) <u>J Biol. Chem.</u> 278 :51841-51850 Kessler B.M. (2006) <u>Exp. Rev. Proteomics.</u> 3 :213-221 Kumanomidou T., <i>et al.</i> (2006) <u>J. Mol. Biol.</u> 355 :612-618 Love K.R., <i>et al.</i> (2007) <u>Nat. Chem. Biol.</u> 3 :697-705 Wilkinson K.D. <i>et al.</i> (2005) <u>Meth. Enz.</u> 399 :37-51
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