

MATERIAL DATA SHEET**Ubiquitin AFC, human recombinant****Cat. # U-551**

Fluorogenic substrate based on the C-terminus derivatization of ubiquitin with 7-amino-4-trifluoromethylcoumarin (AFC). Similar to ubiquitin-AMC, this is an exquisitely sensitive deubiquitinating enzyme substrate and is useful for studying ubiquitin C-terminal hydrolytic activity when detection sensitivity or continuous monitoring is essential. The fluorophore has a larger Stokes radius than AMC which is useful to reduce compound interference in HTS assays.

Product Information

Quantity:	50 µg
Stock:	X mg/ml (X µM) in 100 % DMSO . Concentration varies with lot number.
MW:	8.6 kDa
Purity:	> 95% by HPLC

Use & Storage

Use:	Substrate concentrations for assay range from 0.1-1 µM depending on assay conditions. Typical enzyme concentrations for UCH-L3 are 10-100 pM and for Isopeptidase-T are 10-100 nM. Release of AFC fluorescence can be monitored using Ex400 nm and Em505 nm wavelengths, respectively.
Storage:	Store at -80°C. Avoid multiple freeze/thaw cycles.

Literature

References:	Dang L.C., <i>et al.</i> (1998) <u>Biochem.</u> 37 :1868-1879
	Gossrau R., <i>et al.</i> (1984) <u>Ad. Exp. Med. Biol.</u> 167 :191-207
	Lojda Z (1996) <u>Ad. Exp. Med. Biol.</u> 98 :215-228
	Mason D.E., <i>et al.</i> (2004) <u>Biochem.</u> 43 :6535-6544
	Sinha P., <i>et al.</i> (1984) <u>Ad. Exp. Med. Biol.</u> 167 :219-226
	Smith R.E., <i>et al.</i> (1980) <u>Throm. Res.</u> 17 :393-402
	Stein R.L., <i>et al.</i> (1998) <u>Biochem.</u> 34 :12616-12623

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