

Lot # XXXXX

BostonBiochem

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

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|------------------|------------------------------|
| Quantity: | 50 µg |
| Stock: | X mg/ml (X µM) in 100 % DMSO |
| MW: | 8.6 kDa |
| Purity: | > 95% by HPLC |

Use & Storage

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|-----------------|---|
| 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 excitation and emission wavelengths of 380 nm and 505 nm, respectively. |
| Storage: | Store at -80°C. Avoid multiple freeze/thaw cycles. |

Literature

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|--------------------|---|
| 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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