Z-LR-AMC

Cathepsin substrate

Sensitive fluorogenic substrate for cathepsin K (K_m=8µM, k_{cat}/K_m=4 x 10 $M^{-1}s^{-1}$). This substrate is also cleaved by cathepsin B, F, L, L2/V, S. Z-LR-AMC is also cleaved by malaria parasite cysteine proteases falcipain-1, -2, -3, berghepain, and vivapain-2, -3. Ex.: 365nm, Em.: 440nm, although the following Ex/Em can also be used: 355,380/450,460. This substrate is useful for inhibitor screening and kinetic analysis. Also available: fluorogenic calibration standard AMC (BML-KI144).

Citations: 15 View Online »

Ordering Information Order Online »

BML-P229-0010	10mg

Manuals, SDS & CofA View Online »

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended. Store, as supplied, at -20°C for up to 1 year. Store solutions at -20°C for up to 3 months.
Handling	Protect from light and moisture.
Long Term Storage	-20°C
Shipping	Blue Ice

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	Z-Leu-Arg-AMC, Cathepsin K substrate (fluorogenic)
Appearance	White to off-white solid.
Formulation	Lyophilized.
MW	578.7
Purity	≥97% (HPLC)
Sequence	Z-Leu-Arg-AMC . HCl [Z=Cbz=Benzyloxycarbonyl; AMC=7-amino-4-methylcoumarin]
Solubility	Soluble in DMSO to at least 20mM.
Source	Synthetic.

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ENZO LIFE SCIENCES, INC.
Phone: 800.942.0430
info-usa@enzolifesciences.com

European Sales Office
ENZO LIFE SCIENCES (ELS) AG
Phone: +41 61 926 8989
info-eu@enzolifesciences.com

Belgium, The Netherlands & Luxembourg
Phone: +32 3 466 0420
info-be@enzolifesciences.com

France
Phone: +33 472 440 655
info-fr@enzolifesciences.com

Germany
Phone: +49 7621 5500 526
info-de@enzolifesciences.com

UK & Ireland
Phone (UK customers): 0845 601 1488
Phone: +44 1392 825900
info-uk@enzolifesciences.com

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