Mca-APK(Dnp)

ACE2 substrate

Fluorogenic substrate for angiotensin converting enzyme-2 (ACE2), a zinc-dependent carboxypeptidase with 42% amino acid sequence identity to ACE1. Unlike Mca-YVADAPK(Dnp), this substrate is not cleaved by caspases. Mca fluorescence is quenched by the Dnp group until cleavage (at Pro-Lys) separates them. Ex: 328 nm, Em: 393 nm, although the following Ex/Em have also been used: 320-340/400-420. This highly quenched (99.6%) substrate is useful for inhibitor screening and kinetic analysis. Also available: fluorogenic Mca control peptide (BML-P127).

Citations: 25 View Online »

Ordering Information Order Online »

BML-P163-0001	1mg

Manuals, SDS & CofA View Online »

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended. Stock solutions in DMSO stable at -20°C
Handling	Protect from light and moisture.
Long Term Storage	-20°C
Shipping	Blue Ice

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	ACE2 substrate (fluorogenic)
Appearance	Yellow powder.
Formula	$C_{32}H_{37}N_6O_{12}$
Identity	Determined by MS.
MW	696.7
Purity	≥95% (HPLC)
Sequence	Mca-Ala-Pro-Lys(Dnp) [Mca=(7-methoxycoumarin-4-yl)acetyl;Dnp=2,4-dinitrophenyl]
Solubility	Soluble in DMSO or 10% Ammonium Hydroxide (2 mg/ml).
Source	Synthetic.

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