

Mca-YVADAPK(Dnp)-OH

Catalog number: 13557

Unit size: 1 mg

Product Details

Storage Conditions	Freeze (<-15 °C), Minimize light exposure
Expiration Date	12 months upon receiving

Chemical Properties

Appearance	Solid
Molecular Weight	1145.15
Soluble In	DMSO

Spectral Properties

Excitation Wavelength	322 nm
Emission Wavelength	381 nm

Applications

Mca-YVADAPK(Dnp)-OH is a fluorogenic peptide substrate for detecting caspase-1/interleukin-converting enzyme (ICE) and angiotensin I-converting enzyme-2 (ACE-2). Its N-terminal contains a highly fluorescent 7-methoxycoumarin (MCA) fluorophore that is efficiently quenched by non-fluorescent 2,4-dinitrophenyl group on lysine residue via fluorescence resonance energy transfer (dark FRET). It can be used to measure the activities of caspase-1/interleukin-converting enzyme (ICE) and angiotensin I-converting enzyme-2 (ACE-2) that are capable of cleaving an amide bond between the fluorescent group (MCA) and the quencher group (DNP), resulting an increase in fluorescence.