

Mca - RPPGFSAFK(Dnp), fluorogenic

Product Code: 1385-005

Innopep Peptide Product

Price: \$156.00

Short Description

Mca-RPPGFSAF-K(Dnp)

Description

Overview

Description

This peptide is a fluorescence resonance energy transfer (FRET) substrate for assaying ECE-1 and ECE-2, ACE1 and ACE2, neprilysin, thermolysin (TLN), MMP-2 and MMP9, thimet oligopeptidase, cathepsin A, cathepsin X/Z, BACE, and insulinase, but not MMP1. Fluorescence of Mca (donor) is quenched by Dnp (quencher) in the intact peptide. Proteolytic cleavage of the FRET peptide separates the donor and the quencher, recovering the quenched fluorescence of Mca that is directly related to the enzyme activities and can be monitored at Ex/Em: 328nm/393nm.

Sequence

Mca-RPPGFSAF-K(Dnp)

Sequence (3 Letter)

Mca-Arg-Pro-Pro-Gly-Phe-Ser-Ala-Phe-Lys(Dnp)-OH

Molecular Weight

1388.5

Properties

Purity

> 95% By HPLC

Storage

Store at -20 °C, cap vial tightly at all times.

References

Johnson, G.D. et al. *Anal. Biochem.* **286**, 112 (2000); Mzhavia, N. et al. *J. Biol.*

Chem. **278**, 14704 (2003); Sigman, J.A. et al. *Biochem. J.* **388**, 255 (2005);