



Product Data Sheet

Product Name:	NFF-3	
Catalog Number:	AS-27114 (1 mg)	Lot Number: See label on vial
Sequence:	Mca-Arg-Pro-Lys-Pro-Val-Glu-Nva-Trp-Arg-Lys(Dnp)-NH ₂ (3-letter code) Mca-RPKPVE-Nva-WR-K(Dnp)-NH ₂ (1-letter code)	
Molecular Weight:	1675.9	
Peptide Purity:	>95%	
Appearance:	Lyophilized yellow powder	

Peptide Reconstitution: NFF-3 peptide is freely soluble in water.

Storage: NFF-3 peptide is shipped at ambient temperature. Upon receipt, store lyophilized peptide at -20°C or lower. Reconstituted peptide can be aliquoted and stored at -20°C or lower.

Description: NFF-3 is hydrolyzed rapidly by MMP-3 ($k_{\text{cat}}/K_{\text{m}} = 218,000 \text{ s}^{-1} \text{ M}^{-1}$) and very slowly by MMP-9 ($k_{\text{cat}}/K_{\text{m}} = 10,100 \text{ s}^{-1} \text{ M}^{-1}$), but no significant hydrolysis by MMP-1 and MMP-2. It is one of the few synthetic substrates selectively hydrolyzed by certain members of the MMP family and thus has important applications for the differentiation of MMP-3 activity from that of other MMPs. Abs/Em = 325/393 nm. Ref: Bremer, C. et al. *Acad. Radiol. 9 Suppl 2*, S314 (2002); Nagase, H. et al. *J. Biol. Chem.* **269**, 20952 (1994).

Published Citations:

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