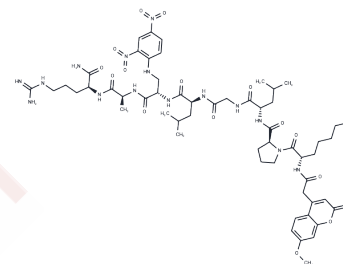


Mca-Lys-Pro-Leu-Gly-Leu-Dap(Dnp)-Ala-Arg-NH<sub>2</sub>

## Chemical Properties

CAS No. :	720710-69-0
Formula:	C <sub>55</sub> H <sub>80</sub> N <sub>16</sub> O <sub>16</sub>
Molecular Weight:	1221.32
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Mca-Lys-Pro-Leu-Gly-Leu-Dap(Dnp)-Ala-Arg-NH <sub>2</sub> (FS-6) is a quenched, fluorescent MMP peptide substrate designed for real-time quantification of MMP enzymatic activity. As an extended variant of the MMP substrate (FS-1), it demonstrates increased specificity against collagenases (MMP-1, MMP-8, MMP-13) and MT1-MMP, with higher specificity constants (Ex/Em=325 nm/400 nm). [1]
Targets(IC50)	MMP
In vitro	The compound Mca-Lys-Pro-Leu-Gly-Leu-Dap(Dnp)-Ala-Arg-NH <sub>2</sub> exhibits a catalytic efficiency (k <sub>cat</sub> /K <sub>m</sub> ) that is 2-9-fold higher in comparison to FS-1 for specific matrix metalloproteinases (MMP-1, MMP-8, MMP-13) and membrane-type 1-MMP (MMP-14), or a 3-fold increase according to reference [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.8188 mL	4.0939 mL	8.1879 mL
5 mM	0.1638 mL	0.8188 mL	1.6376 mL
10 mM	0.0819 mL	0.4094 mL	0.8188 mL
50 mM	0.0164 mL	0.0819 mL	0.1638 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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