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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic

Dnp-PLGLWA-DArg-NH2 TFA

Cat. No.:	HY-P3484
Molecular Formula:	$C_{47}H_{65}F_3N_{14}O_{13}$
Molecular Weight:	1091.1
Target:	MMP
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Dnp-PLGLWA-DArg-NH2 TFA is a fluorogenic substrate for MMP-1 and MMP-9. Dnp-PLGLWA-DArg-NH2 TFA can be used to quantify the activity of MMPs (Ex=280 nm, Em=360 nm)[1][2].	
IC_{50} & Target	MMP-1	MMP-9
In Vitro	Guidelines (Following is our recommended protocol. This protocol only provides a guideline, and should be modified according to your specific needs)[2]. 1. Enzyme activity assays are performed in 50 mmol/l Tris-HCl buffer, pH 7.5, 0.15 mol/l NaCl, 10 mmol/l $CaCl_2$, 0.02% TNC buffer containing 0.05% Brij 35 and 50 μM $ZnSO_4$. 2. Dnp-PLGLWA-DArg-NH2 TFA. Each fraction is incubated with 1 μM substrate at 37°C for 20 h. 3. Stop the reaction by the addition of 3% acetic acid. 4. Measure the fluorescence using wavelengths of 280 nm (excitation) and 360 nm (emission) with a fluorescence reader. MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

[1]. G M McGeehan, et al. Characterization of the peptide substrate specificities of interstitial collagenase and 92-kDa gelatinase. Implications for substrate optimization. J Biol Chem. 1994 Dec 30;269(52):32814-20.

[2]. Ken-ichi Shimokawa Ki, et al. Matrix metalloproteinase (MMP)-2 and MMP-9 activities in human seminal plasma. Mol Hum Reprod. 2002 Jan;8(1):32-6.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA