PRODUCT INFORMATION



Mca-PLGL-Dap(Dnp)-AR-NH2 (trifluoroacetate salt)

Item No. 24149

Formal Name: 1-[(7-methoxy-2-oxo-2H-1-benzopyran-

> 4-yl)acetyl]-L-prolyl-L-leucylglycyl-Lleucyl-3-[(2,4-dinitrophenyl)amino]-L-alanyl-L-argininamide,

2,2,2-trifluoroacetate

Synonyms: Mca-Pro-Leu-Gly-Leu-Dap(Dnp)-Ala-

> Arg-NH₂, 7-Methoxycoumarin-4-acetyl-P-L-G-L-β-(2,4-dinitrophenylamino)A-R

MF: $C_{49}H_{68}N_{14}O_{15} \bullet XCF_3COOH$

1,093.2 FW: **Purity:** ≥95% Ex./Em. Max: 328/420 nm

A lyophilized powder Supplied as:

Storage: -20°C Stability: ≥4 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Mca-PLGL-Dap(Dnp)-AR-NH₂ (trifluoroacetate salt) is supplied as a lyophilized powder. A stock solution may be made by dissolving the Mca-PLGL-Dap(Dnp)-AR-NH2 (trifluoroacetate salt) in the solvent of choice, which should be purged with an inert gas. Mca-PLGL-Dap(Dnp)-AR-NH2 (trifluoroacetate salt) is soluble in the organic solvent formic acid at a concentration of approximately 1 mg/ml.

Description

Mca-PLGL-Dap(Dnp)-AR-NH₂ is a fluorogenic peptide substrate for matrix metalloproteinases (MMPs). ¹ Upon cleavage by an MMP, 7-methoxycoumarin-4-acetyl (Mca) is released and its fluorescence can be used to quantify MMP activity. Mca has excitation and emission maxima of 328 and 420 nm, respectively.

Reference

1. Edkins, T.J., Alhadeff, J.A., Kwok, V., et al. Development and validation of novel enzyme activity methods to assess inhibition of matrix metalloproteinases (MMPs) in human serum by antibodies against enzyme therapeutics. J. Pharm. Biomed. Anal. 70, 408-414 (2012).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY

subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information Buyer agrees to purchase the material can be found on our website.

Copyright Cayman Chemical Company, 01/03/2023

XCF₃COOH

CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD ANN ARBOR, MI 48108 · USA PHONE: [800] 364-9897

[734] 971-3335

FAX: [734] 971-3640 CUSTSERV@CAYMANCHEM.COM WWW.**CAYMANCHEM**.COM