

Product Data Sheet

Product Name: Z-(L-Arg)-AMC (hydrochloride)

Cat. No.: GC48471

Chemical Properties

Cas. No. 70375-22-3

SMILES NC(NCCC[C@@H](C(NC1=CC=C(C(C)=CC(O2)=O)C2=C1)=O)NC(OCC3=CC=CC=C3)=O)=N.Cl

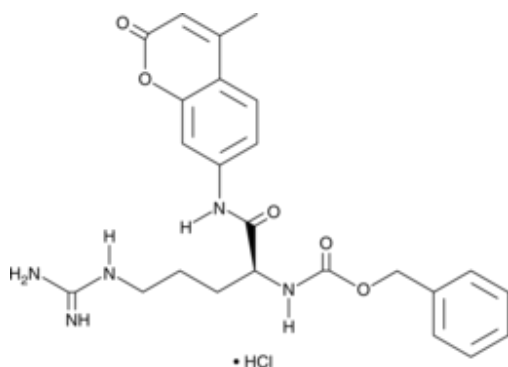
Formula C₂₄H₂₇N₅O₅•HCl M.Wt 502

Solubility DMF: 1 mg/ml, DMSO: 1 mg/ml Storage -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Z-(L-Arg)-AMC is a fluorogenic substrate for trypsin, cathepsin B, and cathepsin H.^{1,2} Upon enzymatic cleavage by trypsin, cathepsin B, or cathepsin H, 7-amino-4-methylcoumarin (AMC) is released and its fluorescence can be used to quantify trypsin, cathepsin B, and cathepsin H activity. AMC displays excitation/emission maxima of 340-360/440-460 nm, respectively.

1. Zimmerman, M., Ashe, B., Yurewicz, E.C., et al. Sensitive assays for trypsin, elastase, and chymotrypsin using new fluorogenic substrates. *Anal. Biochem.* 78(1):47-51 (1977)
2. Brindley, P.J., Kalinna, B.H., Dalton, J.P., et al. Proteolytic degradation of host hemoglobin by schistosomes. *Mol. Biochem. Parasitol.* 89(1):1-9 (1997)

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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