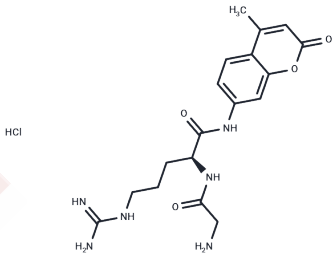
Data Sheet (Cat.No.T35932)

TargetMol

Gly-Arg-AMC (hydrochloride)

Chemical Properties



CAS No. : 70274-78-1

Formula: C18H25ClN6O4

Molecular Weight: 424.89

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Gly-Arg-AMC is a fluorogenic substrate for cathepsin C.1 Upon enzymatic cleavage by cathepsin C, 7-amino-4-methylcoumarin (AMC) is released and its fluorescence can be used to quantify cathepsin C activity. AMC displays excitation/emission maxima of 340-360/440-460 nm, respectively.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO:PBS (pH 7.2) (1:1): 0.5 mg/mL (1.18 mM),Sonication is recommended. DMSO: 30 mg/mL (70.61 mM),Sonication is recommended. Ethanol: 20 mg/mL (47.07 mM),Sonication is recommended. DMF: 30 mg/mL (70.61 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3536 mL	11.7678 mL	23.5355 mL
5 mM	0.4707 mL	2.3536 mL	4.7071 mL
10 mM	0.2354 mL	1.1768 mL	2.3536 mL
50 mM	0.0471 mL	0.2354 mL	0.4707 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.

Reference

Rubach, J.K., Cui, G., Schneck, J.L., et al. The amino-acid substituents of dipeptide substrates of cathepsin C can determine the rate-limiting steps of catalysis. Biochemistry 51(38), 7551-7568 (2012).

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481