Data Sheet (Cat.No.T36352)

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Suc-Leu-Tyr-AMC

Chemical Properties

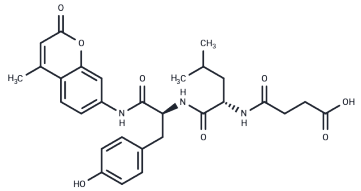
CAS No. : 94367-20-1

Formula: C29H33N3O8

Molecular Weight: 551.59

Appearance: no data available

Storage: keep away from moisture,store at low temperature,keep away from direct sunlight
Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	Suc-Leu-Tyr-AMC is a fluorescent substrate for calpain I and II and papain (another cysteine protease) that is used for measuring the chymotrypsin-like peptidase activity of the 20S proteasome (excitation max: 360 nm; emission max: 460 nm). Suc-Leu-Tyr-AMC can also be cleaved by the Ti protease from E. coli.

Solubility Information

Solubility	DMF: 30 mg/mL DMSO:PBS(pH7.2) (1:1): 0.5 mg/mL Ethanol: 20 mg/mL DMSO: 30 mg/mL (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8129 mL	9.0647 mL	18.1294 mL
5 mM	0.3626 mL	1.8129 mL	3.6259 mL
10 mM	0.1813 mL	0.9065 mL	1.8129 mL
50 mM	0.0363 mL	0.1813 mL	0.3626 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.

Reference

Woo KM, et al. Protease Ti from Escherichia coli requires ATP hydrolysis for protein breakdown but not for hydrolysis of small peptides. J Biol Chem. 1989;264(4):2088-2091.

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