Suc-Ala-Ala-Phe-AMC

Cat. No.: HY-137337

CAS No.: 71973-79-0

Molecular Formula: $C_{29}H_{32}N_4O_8$

Molecular Weight: 564.59

Target: Fluorescent Dye

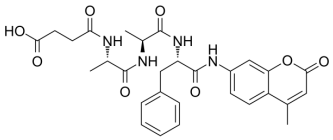
Pathway: Others

Storage: Sealed storage, away from moisture and light

Powder -80°C 2 years

-20°C 1 year

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (442.80 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Concentration / Solvent / Mass	1 mg	5 mg	10 mg
	1 mM	1.7712 mL	8.8560 mL	17.7120 mL
	5 mM	0.3542 mL	1.7712 mL	3.5424 mL
	10 mM	0.1771 mL	0.8856 mL	1.7712 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Suc-Ala-Ala-Phe-AMC is a fluorogenic chymotrypsin substrate, can be hydrolyzed by endopeptidase. Suc-Ala-Ala-Phe-AMC has been used in both in vivo assays of the acrosome reaction and in vitro enzyme assays[1][2][3].

REFERENCES

[1]. Farach HA Jr, et al. Evidence for the involvement of metalloendoproteases in the acrosome reaction in sea urchin sperm. J Biol Chem. 1987 Apr 25;262(12):5483-7.

[2]. Pinto MR, et al. Chymotrypsin-like enzymes are involved in sperm penetration through the vitelline coat of Ciona intestinalis egg. Mol Reprod Dev. 1990 Aug;26(4):319-23.

[3]. Mumford RA, et al. A zinc metalloendopeptidase associated with dog pancreatic membranes. J Biol Chem. 1980 Mar 25;255(6):2227-30.

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

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