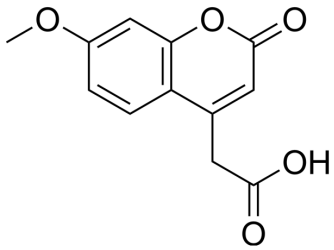
MCA

Cat. No.:	HY-W027544
CAS No.:	62935-72-2
Molecular Formula:	$C_{12}H_{10}O_5$
Molecular Weight:	234.2
Target:	Fluorescent Dye
Pathway:	Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 25 mg/mL (106.75 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	4.2699 mL	21.3493 mL	42.6985 mL
	5 mM	0.8540 mL	4.2699 mL	8.5397 mL
	10 mM	0.4270 mL	2.1349 mL	4.2699 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (10.67 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (10.67 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

MCA is a coumarin derivative. MCA quantitates platelet-activating factor by high-performance liquid chromatography with fluorescent detection. MCA can modify FRET peptide substrates for analyzing protease activities[1][2].

REFERENCES

[1]. Perera NC, et, al. NSP4 is stored in azurophil granules and released by activated neutrophils as active endoprotease with restricted specificity. J Immunol. 2013 Sep 1;191(5):2700-7.

[2]. Choi YH,et, al. Effect of functional groups on the solubilities of coumarin derivatives in supercritical carbon dioxide. Chromatographia. 1998 Jan;47(93-7).

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

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