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产品名称：AC-ASP-GLU-VAL-ASP-7-氨基-4-三氟甲基香豆素
产品别名：Ac-DEVD-AFC

生物活性：

Description	Ac-DEVD-AFC is a fluorogenic substrate (λex=400 nm, λem=530 nm).
In Vitro	After incubation with Ac-DEVD-AFC for 1 hour, significant increase of caspase-3 activity is observed at 4 hour compare with control. There are no significant increases of caspase-3 activity in Photofrin and LPLI group. The cleavage of Ac-DEVD-AFC in response to caspase-3 activation is remarkably inhibited by shRNA-BimL transfection[1].

Solvent&Solubility

In Vitro:

DMSO : ≥ 50 mg/mL (68.53 mM)

H_2O : < 0.1 mg/mL (insoluble)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.3706 mL	6.8530 mL	13.7060 mL
	5 mM	0.2741 mL	1.3706 mL	2.7412 mL
	10 mM	0.1371 mL	0.6853 mL	1.3706 mL

*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液；一旦配成溶液，请分装保存，避免反复冻融造成的产品失效。

储备液的保存方式和期限：-80° C, 6 months; -20° C, 1 month (protect from light)。 -80° C 储存时，请在 6 个月内使用，-20° C 储存时，请在 1 个月内使用。

In Vivo:

请根据您的实验动物和给药方式选择适当的溶解方案。以下溶解方案都请先按照 In Vitro 方式配制澄清的储备液，再依次添加助溶剂：

——为保证实验结果的可靠性，澄清的储备液可以根据储存条件，适当保存；体内实验的工作液，建议您现用现配，当天使用； 以下溶剂前显示的百分比是指该溶剂在您配制终溶液中的体积占比；如在配制过程中出现沉淀、析出现象，可以通过加热和/或超声的方式助溶

1.请依序添加每种溶剂： 10% DMSO→40% PEG300 →5% Tween-80 → 45% saline

Solubility: ≥ 2.5 mg/mL (3.43 mM); Clear solution

此方案可获得 ≥ 2.5 mg/mL (3.43 mM，饱和度未知) 的澄清溶液。

以 1 mL 工作液为例，取 100 μL 25.0 mg/mL 的澄清 DMSO 储备液加到 400 μL PEG300 中，混合均匀；向上述体系中加入 50 μL Tween-80，混合均匀；然后继续加入 450 μL 生理盐水定容至 1 mL。

2.请依序添加每种溶剂： 10% DMSO→ 90% (20% SBE-β-CD in saline)

Solubility: ≥ 2.5 mg/mL (3.43 mM); Clear solution

此方案可获得 ≥ 2.5 mg/mL (3.43 mM，饱和度未知) 的澄清溶液。

以 1 mL 工作液为例，取 100 μL 25.0 mg/mL 的澄清 DMSO 储备液加到 900 μL 20% 的 SBE-β-CD 生理盐水水溶液中，混合均匀。

3.请依序添加每种溶剂： 10% DMSO →90% corn oil

	Solubility: ≥ 2.5 mg/mL (3.43 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (3.43 mM，饱和度未知) 的澄清溶液，此方案不适用于实验周期在半个月以上的实验。 以 1 mL 工作液为例，取 100 μL 25.0 mg/mL 的澄清 DMSO 储备液加到 900 μL 玉米油中，混合均匀。
References	[1]. Wang X, et al. Involvement of Bim in Photofrin-mediated photodynamically induced apoptosis. Cell Physiol Biochem. 2015;35(4):1527-36.
实验参考：	
Cell Assay	For the detection of caspase-3 activity, PBS washes cell pellets (derive from either the medium or the adherent cells) which are suspended in extract buffer [25 mM HEPES (pH7.4), 0.1% TritonX-l00, 10% glycerol, 5 mM DTT, 1mM phenylmethylsulfonyl fluoride, 10 mg/mL pepstatin, and 10 mg/mL Leupeptin] and vortexed vigorously. 20μl of extract (corresponding to 10% of the sample) are incubated with the caspase-3 fluorogenic substrates Ac-DEVD-AFC at 100 μM final concentration at room temperature, and caspase-3 activity is measured continuously by monitoring the release of fluorigenic AFC at 37°C[1].
References	[1]. Wang X, et al. Involvement of Bim in Photofrin-mediated photodynamically induced apoptosis. Cell Physiol Biochem. 2015;35(4):1527-36.