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产品名称：ONO-AE3-208
产品别名：AE 3-208

生物活性：

Description	ONO-AE3-208 is an EP4 antagonist, and suppresses cell invasion, migration, and metastasis of prostate cancer.
IC_{50} & Target	EP4
In Vitro	ONO-AE3-208 surpresses the in vitro cell invasion and migration in a dose-dependent manner without affecting cell proliferation[1]. ONO-AE3-208 abolisheS CTGF in the presence of the EET synthesis inhibitor MS-PPOH. Arachidonic acid (AA) causeS dose-dependent dilation of the attached Af-Art, and this effect is blocked by ONO-AE3-208[2].
In Vivo	ONO-AE3-208 surpresses the in vivo bone metastasis of PC3 cells in mice[1]. The photon tumor burdens are significantly increased in a time-dependent manner in the control group in comparison with those in the ONO-AE3-208-treated group. The rate of metastasis formation is significantly higher in the former than in the latter. The median time of metastasis formation is 29 d in the ONO-AE3-208-treated animals as compared with 21 d in the controls[3].

Solvent&Solubility

In Vitro:

DMSO : ≥ 45 mg/mL (111.27 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	2.4726 mL	12.3631 mL	24.7262 mL
	5 mM	0.4945 mL	2.4726 mL	4.9452 mL
	10 mM	0.2473 mL	1.2363 mL	2.4726 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。-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: ≥ 2.08 mg/mL (5.14 mM); Clear solution

此方案可获得 ≥ 2.08 mg/mL (5.14 mM，饱和度未知) 的澄清溶液。

以 1 mL 工作液为例，取 100 μL 20.8 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% corn oil Solubility: ≥ 2.08 mg/mL (5.14 mM); Clear solution 此方案可获得 ≥ 2.08 mg/mL (5.14 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 20.8 mg/mL 的澄清 DMSO 储备液加到 900 μL 玉米油中，混合均匀。
References	[1]. Xu S, et al. An EP4 Antagonist ONO-AE3-208 Suppresses Cell Invasion, Migration, and Metastasis of Prostate Cancer. Cell Biochem Biophys. 2014 Apr 18. [2]. Ren Y, et al. Prostaglandin E2 mediates connecting tubule glomerular feedback. Hypertension. 2013 Dec;62(6):1123-8. [3]. Xu S, et al. Inhibitory effect of ONO-AE3-208 on the formation of bone metastasis of prostate cancer in mice. Zhonghua Nan Ke Xue. 2014 Aug;20(8):684-9. [4]. Thieme K, et al. EP4 inhibition attenuates the development of diabetic and non-diabetic experimental kidney disease. Sci Rep. 2017 Jun 13;7(1):3442.