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产品名称：AZD2098
产品别名：AZD2098

生物活性：

Description	AZD2098 is a potent and selective CC-chemokine receptor 4 (CCR4) inhibitor with pIC_{50}s of 7.8, 8.0, 8.0 and 7.6 for human, rat, mouse and dog respectively, used for asthma research[1][2].
IC_{50} & Target	CCR4 [1]
In Vitro	AZD2098 potently inhibits chemokine-induced cellular responses, with pIC_{50} of 7.5 and 6.3 against CCL22-induced Ca^{2+} influx in hCCR4-expressing CHO cells and CCL17- or CCL22-induced chemotaxis of primary human Th2 cells respectively[1].
In Vivo	AZD2098 (73.5-5.0 μg/kg; p.o.; BID; twice a day; 1 hour before and every 12 hours after antigen challenge) exhibits efficacy against antigen-induced inflammatory response among ovalbumin-sensitized rats, and the changes are first visible at a dose of 0.22 μmol/kg and maximal at 7.5 μmol/kg[1].

Animal Model:	Brown-Norway rats[1]
Dosage:	73.5 μg/kg, 250.6 μg/kg, 735.2 μg/kg, 1.0 mg/kg, 2.5 mg/kg, 5.0 mg/kg
Administration:	Oral administration; twice a day; 1 hour before and every 12 hours after antigen challenge
Result:	Exhibits efficacy against antigen-induced inflammatory response among ovalbumin-sensitized rats.

Solvent&Solubility

In Vitro:

DMSO : 100 mg/mL (**299.24 mM;** Need ultrasonic)

H_2O : < 0.1 mg/mL (insoluble)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.9924 mL	14.9620 mL	29.9240 mL
	5 mM	0.5985 mL	2.9924 mL	5.9848 mL
	10 mM	0.2992 mL	1.4962 mL	2.9924 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: ≥ 2.5 mg/mL (7.48 mM); Clear solution

此方案可获得 ≥ 2.5 mg/mL (7.48 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% corn oil Solubility: ≥ 2.5 mg/mL (7.48 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (7.48 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]. Kindon N, et al. Discovery of AZD-2098 and AZD-1678, Two Potent and Bioavailable CCR4 Receptor Antagonists. ACS Med Chem Lett. 2017 Sep 1;8(9):981-986. [2]. Asher Mullard. Cancer charity sees success re-prioritizing industry's shelved compounds. Nat Rev Drug Discov. 2014 May;13(5):319-21.