



上海源叶生物科技有限公司
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产品名称: **ML348**
产品别名: **GNF-Pf-1127**

生物活性:

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|--|--|--|-----------|------------|------------|
| Description | ML348 is a selective and reversible lysophospholipase 1 (LYPLA1) inhibitor with an IC50 of 210 nM, and barely inhibits LYPLA2[1]. | | | | |
| IC50 & Target | IC 50: 210 nM (LYPLA1) | | | | |
| In Vitro | ML348 (5 μM; 3 hours) selectively inhibits LYPLA1 in cultured cells[1]. | | | | |
| | Cell Viability Assay[1] | | | | |
| | Cell Line: | HEK293T cells, murine T-cells | | | |
| | Concentration: | 5 μM | | | |
| | Incubation Time: | 3 hours | | | |
| | Result: | Show potent, selective inhibition of LYPLA1. | | | |
| In Vivo | ML348 (50 mg/kg, i.p., 3 hours) shows potent and selective activity in vivo, inhibits LYPLA1 enzymes in heart, kidney and lung in mice[1]. | | | | |
| | Animal Model: | C57BL6 male mice (3-4 months)[1] | | | |
| | Dosage: | 50 mg/kg | | | |
| | Administration: | Intraperitoneal injection; 3 hours | | | |
| | Result: | Potent and selective inhibited LYPLA1 enzymes in heart, kidney and lung in vivo. | | | |
| Solvent&Solubility | In Vitro: | | | | |
| | DMSO : 25 mg/mL (60.13 mM; Need ultrasonic) | | | | |
| | Preparing Stock Solutions | Solvent / Mass / Concentration | 1 mg | 5 mg | 10 mg |
| | | 1 mM | 2.4051 mL | 12.0253 mL | 24.0506 mL |
| | | 5 mM | 0.4810 mL | 2.4051 mL | 4.8101 mL |
| | | 10 mM | 0.2405 mL | 1.2025 mL | 2.4051 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℃, 6 months; -20℃, 1 month。 -80℃ 储存时，请在 6 个月内使用， -20℃ 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 →90% corn oil | | | | | |
| Solubility: ≥ 2.5 mg/mL (6.01 mM); Clear solution | | | | | |
| 此方案可获得 ≥ 2.5 mg/mL (6.01 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。 | | | | | |



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| | 以 1 mL 工作液为例, 取 100 μ L 25.0 mg/mL 的澄清 DMSO 储备液加到 900 μ L 玉米油中, 混合均匀。 |
| References | [1]. Adibekian A et al. Characterization of a Selective, Reversible Inhibitor of Lysophospholipase 1 (LYPLA1). National Center for Biotechnology Information (US); 2010- 2013 Apr 08. |



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