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产品名称: Y134  
CAS 号: 849662-80-2  
产品货号: T87837

生物活性:

|                                                                                            |                                                                                                                                                                                                                                                                                                                  |                                                                                                  |           |            |            |
|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-----------|------------|------------|
| Description                                                                                | Y134 is a selective and orally active oestrogen receptor (ER) modulator (SERM), exhibits potent antagonist activity at ERα and ERβ. Y134 shows 121.1-fold selectivity for ERα (Ki=0.09 nM) over ERβ (Ki=11.31 nM). Y134 inhibits oestrogen-stimulated proliferation of ER-positive human breast cancer cells[1]. |                                                                                                  |           |            |            |
| IC50 & Target                                                                              | ERα                                                                                                                                                                                                                                                                                                              | ERβ                                                                                              |           |            |            |
|                                                                                            | 0.09 nM (Ki)                                                                                                                                                                                                                                                                                                     | 11.31 nM (Ki)                                                                                    |           |            |            |
| In Vitro                                                                                   | Y134 exhibits potent antagonist activity at ERs in CV-1 cells cotransfected with plasmids containing ERα or ERβ and oestrogen-response element-driven luciferase, with IC50s of 0.52 nM for ERα and 2.94 nM for ERβ[1].                                                                                          |                                                                                                  |           |            |            |
|                                                                                            | Y134 (0.01 nM-10 μM; 6 d) inhibits the oestrogen-stimulated ER-expressing breast cancer cell (MCF-7 and T47D) proliferation[1].                                                                                                                                                                                  |                                                                                                  |           |            |            |
|                                                                                            | Cell Viability Assay[1]                                                                                                                                                                                                                                                                                          |                                                                                                  |           |            |            |
|                                                                                            | Cell Line:                                                                                                                                                                                                                                                                                                       | MCF-7, T47, MDA-MB-231 cells                                                                     |           |            |            |
|                                                                                            | Concentration:                                                                                                                                                                                                                                                                                                   | 0.01 nM-10 μM                                                                                    |           |            |            |
|                                                                                            | Incubation Time:                                                                                                                                                                                                                                                                                                 | 6 days                                                                                           |           |            |            |
|                                                                                            | Result:                                                                                                                                                                                                                                                                                                          | Suppressed oestrogen-stimulated MCF-7 and T47D cell proliferation.                               |           |            |            |
|                                                                                            |                                                                                                                                                                                                                                                                                                                  | Showed no effects on MDA-MB-231 cells, except some cytotoxicity was seen at high concentrations. |           |            |            |
| In Vivo                                                                                    | Y134 (1-3 mg/kg/day; p.o. for 3 days) abolishes the E2-induced mammary gland terminal end bud (TEB) outgrowth in ovariectomized rats. Y134 inhibits uterine cell proliferation induced by E2 in a dose-dependent manner[1].                                                                                      |                                                                                                  |           |            |            |
|                                                                                            | Animal Model:                                                                                                                                                                                                                                                                                                    | Four-week old female Sprague-Dawley rats were received ovariectomy[1]                            |           |            |            |
|                                                                                            | Dosage:                                                                                                                                                                                                                                                                                                          | 1, 3 mg/kg                                                                                       |           |            |            |
|                                                                                            | Administration:                                                                                                                                                                                                                                                                                                  | P.o. daily for 3 days                                                                            |           |            |            |
|                                                                                            | Result:                                                                                                                                                                                                                                                                                                          | Abolished the effect exerted by E2 in a dose-dependent manner.                                   |           |            |            |
| Solvent&Solubility                                                                         | 细胞实验:                                                                                                                                                                                                                                                                                                            |                                                                                                  |           |            |            |
|                                                                                            | DMSO 中的溶解度 : 100 mg/mL (211.60 mM; 超声助溶; 吸湿的 DMSO 对产品的溶解度有显著影响, 请使用新开封的 DMSO)                                                                                                                                                                                                                                    |                                                                                                  |           |            |            |
|                                                                                            | Preparing Stock Solutions                                                                                                                                                                                                                                                                                        | Solvent / Mass / Concentration                                                                   | 1 mg      | 5 mg       | 10 mg      |
|                                                                                            |                                                                                                                                                                                                                                                                                                                  | 1 mM                                                                                             | 2.1160 mL | 10.5798 mL | 21.1595 mL |
|                                                                                            |                                                                                                                                                                                                                                                                                                                  | 5 mM                                                                                             | 0.4232 mL | 2.1160 mL  | 4.2319 mL  |
| 10 mM                                                                                      |                                                                                                                                                                                                                                                                                                                  | 0.2116 mL                                                                                        | 1.0580 mL | 2.1160 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。 |                                                                                                                                                                                                                                                                                                                  |                                                                                                  |           |            |            |
| 动物实验:                                                                                      |                                                                                                                                                                                                                                                                                                                  |                                                                                                  |           |            |            |
| 请根据您的 实验动物和给药方式 选择适当的溶解方案。                                                                 |                                                                                                                                                                                                                                                                                                                  |                                                                                                  |           |            |            |



|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | <p>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：</p> <p>——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；</p> <p>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</p> <p>方案 一</p> <p>请依序添加每种溶剂： 10% DMSO → 40% PEG300 → 5% Tween-80 → 45% Saline</p> <p>Solubility: ≥ 2.5 mg/mL (5.29 mM); 澄清溶液</p> <p>此方案可获得 ≥ 2.5 mg/mL（饱和度未知）的澄清溶液。</p> <p>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；再向上述体系中加入 50 μL Tween-80，混合均匀；然后再继续加入 450 μL 生理盐水 定容至 1 mL。</p> <p>生理盐水的配制：将 0.9 g 氯化钠，溶解于 ddH<sub>2</sub> O 并定容至 100 mL，可以得到澄清透明的生理盐水溶液。</p> <p>方案 二</p> <p>请依序添加每种溶剂： 10% DMSO → 90% (20% SBE-β -CD in Saline)</p> <p>Solubility: ≥ 2.5 mg/mL (5.29 mM); 澄清溶液</p> <p>此方案可获得 ≥ 2.5 mg/mL（饱和度未知）的澄清溶液。</p> <p>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。</p> <p>2 g SBE-β -CD（磺丁基醚 β -环糊精）粉末定容于 10 mL 的生理盐水中，完全溶解至澄清透明。</p> <p>方案 三</p> <p>请依序添加每种溶剂： 10% DMSO → 90% Corn Oil</p> <p>Solubility: ≥ 2.5 mg/mL (5.29 mM); 澄清溶液</p> <p>此方案可获得 ≥ 2.5 mg/mL（饱和度未知）的澄清溶液，此方案实验周期在半个月以上的动物实验酌情使用。</p> <p>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。</p> |
| 参考文献 | [1]. Ning M, et, al. Biological activities of a novel selective oestrogen receptor modulator derived from raloxifene (Y134). Br J Pharmacol. 2007 Jan;150(1):19-28.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

完整储备液配制表：

\* 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。

| 可选溶剂 | 质量         | 1 mg      | 5 mg       | 10 mg      | 25 mg      |
|------|------------|-----------|------------|------------|------------|
|      | 溶剂体积<br>浓度 |           |            |            |            |
| DMSO | 1 mM       | 2.1160 mL | 10.5798 mL | 21.1595 mL | 52.8989 mL |
|      | 5 mM       | 0.4232 mL | 2.1160 mL  | 4.2319 mL  | 10.5798 mL |
|      | 10 mM      | 0.2116 mL | 1.0580 mL  | 2.1160 mL  | 5.2899 mL  |
|      | 15 mM      | 0.1411 mL | 0.7053 mL  | 1.4106 mL  | 3.5266 mL  |



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|  |               |           |           |           |           |
|--|---------------|-----------|-----------|-----------|-----------|
|  | <b>20 mM</b>  | 0.1058 mL | 0.5290 mL | 1.0580 mL | 2.6449 mL |
|  | <b>25 mM</b>  | 0.0846 mL | 0.4232 mL | 0.8464 mL | 2.1160 mL |
|  | <b>30 mM</b>  | 0.0705 mL | 0.3527 mL | 0.7053 mL | 1.7633 mL |
|  | <b>40 mM</b>  | 0.0529 mL | 0.2645 mL | 0.5290 mL | 1.3225 mL |
|  | <b>50 mM</b>  | 0.0423 mL | 0.2116 mL | 0.4232 mL | 1.0580 mL |
|  | <b>60 mM</b>  | 0.0353 mL | 0.1763 mL | 0.3527 mL | 0.8816 mL |
|  | <b>80 mM</b>  | 0.0264 mL | 0.1322 mL | 0.2645 mL | 0.6612 mL |
|  | <b>100 mM</b> | 0.0212 mL | 0.1058 mL | 0.2116 mL | 0.5290 mL |



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