

decreased the viability of cells in a dose-dependent manner. When exposed to YM155, PC-3 and PPC-1 showed a concomitant increase in caspase-3 activity. These results suggest that YM155 induces apoptosis in human HRPC cells.

Animal experiment

Animal models: BALB/c nu/nu mice injected with PC-3 cells

Dosage form: Subcutaneous injection, 10 mg/kg

Applications: Mice with large established s.c. xenografted PC-3 tumors received a 3-day continuous infusion of YM155 at 10 mg/kg. Saline control animals showed rapid tumor growth from day 0 (366 mm³) to day 7 (1,123 mm³), with no change in intratumoral surviving and actin protein levels. In contrast, animals treated with YM155 showed tumor regression from day 0 (292 mm³) to day 7 (162 mm³), and a clear decrease in intratumoral survivin levels on days 3 and 7 was observed.

Other notes: Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

In Vivo

Product Citations

1. Hou LJ, Huang XX, et al. "YM155 enhances docetaxel efficacy in ovarian cancer." Am J Transl Res. 2018 Mar 15;10(3):696-708.PMID:29636860
- 2.GAO, JH, et al. "YM155 inhibits tumor growth and enhances chemosensitivity to cisplatin in osteosarcoma." Eur Rev Med Pharmacol Sci 19.11 (2015): 2062-2069.

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References

- [1] Nakahara T, Takeuchi M, Kinoyama I, et al. YM155, a novel small-molecule survivin suppressant, induces regression of established human hormone-refractory prostate tumor xenografts. Cancer research, 2007, 67(17): 8014-8021.

Caution

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NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

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