Antitumor Activity of MPC-6827 in Human Breast, Colon, Pancreatic, Ovarian and Mouse Melanoma Tumor Xenografts in Athymic Nude Mice



(GraphPad: San Diego, CA). Analysis of

NC)

variants with unadjusted pair wise comparison

was performed using SAS software (SAS; Cary,

Christopher M. Pleiman¹, Daniel Von Hoff^{2,3}, Lynn DeMie¹, Orvelin Roman¹, Lori Fotheringham¹, Bruce Roth¹, Sui Xiong Cai⁴, Nilantha Sirisoma⁴, Hong Zhang⁴, Gary Mather¹, Ben Tseng⁴, and Adrian N. Hobden¹

¹Myriad Pharmaceuticals Inc, 320 Wakara Way, Salt Lake City, UT 84108; ;²Translational Genomics Research Institute, 400 N. Fifth Street, Suite 1600, Phoenix, AZ 85004; ³Arizona Cancer Research Center, 1515 N. Campbell Ave, Tucson, AZ, 85724. ⁴Maxim Pharmaceuticals, 6650 Nancy Ridge Drive, San Diego, CA 92121

PHARMAGEUTIGALS

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RESULTS AND CONCLUSIONS

Significant inhibition of the growth of B16-F1 xenografts was observed in animals treated with paclitaxel (25mg/kg: g3d x 4; i.p.), MPC-6827 (5mg/kg:gwk x 2; i.v.) and MPC-6827 (2.5mg/kg;qwk x 2; i.v.) when compared to vehicle treatment alone. On day eleven, the o values for paclitaxel_5mg/kg MPC-6827, and 2.5 mg/kg MPC-6827 were $\rho = 0.0004$ $\rho < 0.0001$ and $\rho = 0.0008$ respectively. None of the compound treated animal groups was significantly better than the others.

APC-6827 is equally effective as paclitaxel (25mg/kg; a3d x 4; i.p.) at both mg/kg:awk x 2; i.v. and 2.5mg/kg:awk x 2; i.v. dosing regimes in B16-F1 ografts in Nu/Nu mice.

(HT-29)

0 = 0.27

Vehicle (D5W; qwk; i.v.)

- MPC-6827 (5mg/kg; qwk x 3; i.v.) ρ = 0.003

The growth of HT-29 xenografts observed in animals treated with irinotecan (40mg/kg; M,W,F x 2; i.p.) and MPC-6827 (5mg/kg; qwk x 3; i.v.) was significantly inhibited when compared to vehicle treatment alone. On day twenty-two, the p values for 5mg/kg MPC-6827 was $\rho = 0.037$. A ρ value for irinotecan was not determined as this study group was dosed above the LD20 and thus overdosed. The tumor volumes for irinotecan are carried out until the LD₂₀ date occurred (Day 12).

These results demonstrate that MPC-6827 (5mg/kg; qwk x 3; i.v.) is effective at nhibiting the growth of HT-29 xenografts in Nu/Nu mice.

(MCF-7)

Significant inhibition of the growth of MCF-7 xenografts was observed in animals treated with doxorubicin (10mg/kg: gwk x 3; i.v.) and MPC-6827 (5mg/kg: gwk x 3 i.v.) when compared to vehicle treatment alone. On day eleven, the o values for 5mg/kg MPC-6827 was o = 0.003. A o value for doxorubicin was not determined as this study group was ended on day eleven due to compound toxicity.

MPC-6827 is effective at 5mg/kg; qwk x 3; i.v. on MCF-7 xenografts in Nu/Nu

(OVCAR-3)

The growth of OVCAR-3 xenografts was observed in animals treated with carboplatin (30mg/kg; qdx5 x 3; i.p.), MPC-6827 (7.5mg/kg;qwk; i.v.) and MPC-6827 (5mg/kg;q3d x 4; i.v.) was significantly reduced when compared to vehicle treatment alone. Neither of the compound treated animal groups was significantly better than the others.

MPC-6827 is equally effective as carboplatin (30mg/kg; qdx5 x 3; i.p.) at both the mg/kg;q3d x 4; i.v. and 7.5mg/kg;qwk; i.v. dosing regimes on OVCAR-3 enografts in Nu/Nu mice.

(MIA PaCa)

Significant inhibition of the growth of MIA PaCa xenografts was observed in animals treated with MPC-6827 (5mg/kg; qwk x 3; i.v.) when compared to vehicle treatment alone. On day 18, the ρ values for 5mg/kg MPC-6827 was $\rho = 0.02$. A ρ value for the gencitibine treatment group was $\rho = 0.016$.

MPC-6827 (5mg/kg; qwk x 3; i.v.) is equally effective as gemcitibine (80mg/kg; q3d x 4; i.p.) on MIA PaCa xenografis in Nu/Nu mice.

SAFETY OF MPC 6827

When dosed up to 7.5mg/kg, MPC-6827 was observed to be well tolerated in Nu/Nu mice. Individual animal body weight loss never exceeded the 20% guideline ecommended by the National Cancer Institute