

Cell Line:	BT474 and HN5 cells
Concentration:	0.03 μ M, 0.1 μ M, 0.3 μ M, 1 μ M, 3 μ M, or 10 μ M
Incubation Time:	6 hours
Result:	Inhibited receptor autophosphorylation of EGFR and ErbB-2 in a dose-responsive manner. Phosphorylation of serine 473 of AKT was also inhibited in a dose-dependent manner.

In Vivo

Lapatinib (GW2016; 30-100 mg/kg; oral administration; twice daily; for 21 days; CD-1 nude female mice) tosylate treatment inhibits tumor xenograft growth of the HN5 cells in a dose-responsive manner at 30 and 100 mg/kg, with complete inhibition of tumor growth at the higher dose^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	CD-1 nude female mice (4-6 weeks old) with HN5 cells ^[1]
Dosage:	30 mg/kg, 100 mg/kg
Administration:	Oral administration; twice daily; for 21 days
Result:	Inhibited tumor xenograft growth of the HN5 cells in a dose-responsive manner.

CUSTOMER VALIDATION

- Nature. 2017 Aug 24;548(7668):471-475.
- Nat Med. 2016 Jul;22(7):723-6.
- Nat Immunol. 2018 Mar;19(3):233-245.
- Sci Transl Med. 2018 Jul 18;10(450):eaaq1093.
- Cell Syst. 2020 Nov 18;11(5):478-494.e9.

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REFERENCES

[1]. Rusnak DW, et al. The effects of the novel, reversible epidermal growth factor receptor/ErbB-2 tyrosine kinase inhibitor, GW2016, on the growth of human normal and tumor-derived cell lines in vitro and in vivo. Mol Cancer Ther. 2001 Dec;1(2):85-94

Caution: Product has not been fully validated for medical applications. For research use only.

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