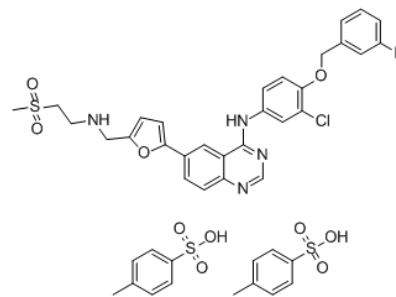


Product Name : Lapatinib ditosylate
Cat. No. : PC-45895
CAS No. : 388082-77-7
Molecular Formula : C₄₃H₄₂ClFN₄O₁₀S₃
Molecular Weight : 925.4608
Target : EGFR
Solubility : 10 mM in DMSO



Biological Activity

Lapatinib (GW 572016) ditosylate is a reversible, selective dual tyrosine kinase inhibitor of both **EGFR** and **ErbB2** with IC₅₀ of 10.8 and 9.2 nM in cell-free assays, respectively.

Lapatinib displays no significant activity against other kinases, including ErbB4, c-Src, and c-Raf1.

Lapatinib reduces tyrosine phosphorylation of EGFR and erbB2, and inhibits activation of Erk1/2 and AKT both in vitro and in vivo.

Lapatinib inhibits tumor xenograft growth of the HN5 and BT474 cells in a dose-responsive manner at 30 and 100 mg/kg; orally active.

References

Xia W, et al. *Oncogene*. 2002 Sep 12;21(41):6255-63.

Rusnak DW, et al. *Mol Cancer Ther*. 2001 Dec;1(2):85-94.

Konecny GE, et al. *Cancer Res*. 2006 Feb 1;66(3):1630-9.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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