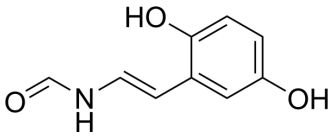
Erbstatin

Cat. No.:	HY-113549
CAS No.:	100827-28-9
Molecular Formula:	$C_9H_9NO_3$
Molecular Weight:	179.17
Target:	EGFR; Apoptosis
Pathway:	JAK/STAT Signaling; Protein Tyrosine Kinase/RTK; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Erbstatin, a EGFR kinase inhibitor, possesses antineoplastic effect[1][2].
In Vitro	Erbstatin does not inhibit the binding of EGF to its receptor but did inhibit the internalization of EGFR complexes and that this compound does not inhibit EGF-stimulated phosphotidylinositol turnover in A431 cells[2]. Erbstatin induces morphological apoptosis and DNA fragmentation in human small cell lung carcinoma (SCLC) cells[3]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Shigeki Kobayashi, et al. Diastereomer-specific effects of double-stranded peptides conjugated with -L-Tyr-L-Phe- or -L-Tyr-D-Phe- residues on tyrosine phosphorylation and inhibition of src(ts)NRK, A431, MCF-7, and DU145 cell growth. Chem Pharm Bull (Tokyo). 2007 Nov;55(11):1585-92.

[2]. M Toi, et al. Antineoplastic effect of erbstatin on human mammary and esophageal tumors in athymic nude mice. Eur J Cancer. 1990;26(6):722-4.

[3]. S Simizu, et al. Involvement of hydrogen peroxide production in erbstatin-induced apoptosis in human small cell lung carcinoma cells. Cancer Res. 1996 Nov 1;56(21):4978-82.

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