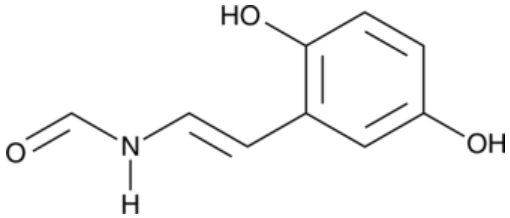
Product Data Sheet

Product Name: Erbstatin
Cat. No.: GC52516

Chemical Properties

Cas. No.	100827-28-9		
SMILES	O=CN/C=C/C1=C(C=CC(O)=C1)O		
Formula	C9H9NO3	M.Wt	179.2
Solubility	Acetone: Soluble,DMSO: Soluble,Methanol: Soluble	Storage	-20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Structure



Background

Erbstatin is an inhibitor of EGF receptor-associated tyrosine kinase that has been found in *Streptomyces*.[1,2] It is selective for EGF receptor-associated tyrosine kinase over protein kinase A (PKA) and PKC, but does inhibit phosphatidylinositol kinase (IC_{50}s = 0.2, 100, >179, and 25 µg/ml, respectively).[1] Erbstatin (10 µg/ml) induces apoptosis and DNA fragmentation in L1210 murine skin lymphocytic leukemia cells.[2] It inhibits LPS-induced production of prostaglandin $F_{2\alpha}$ and nitrite in J774.2 macrophages in a concentration-dependent manner.[3] Erbstatin (4 mg/animal) reduces tumor growth in an MCF-7 breast cancer mouse xenograft model when used in combination with the iron chelator foroxymithine, which prevents its degradation.[4]

1.Onoda, T., Iinuma, H., Sasaki, Y., et al.Isolation of a novel tyrosine kinase inhibitor, lavendustin A, from Streptomyces griseolavendusJ. Nat. Prod.52(6)1252-1257(1989) 2.Simizu, S., Imoto, M., and

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Umezawa, K.Induction of apoptosis by erbstatin in mouse leukemia L1210 cellsBiosci. Biotech. Biochem.58(9)1549-1552(1994) 3.Akarasereenont, P., Mitchell, J.A., Appleton, I., et al.Involvement of tyrosine kinase in the induction of cyclo-oxygenase and nitric oxide synthase by endotoxin in cultured cellsBr. J. Pharmacol.113(4)1522-1528(1994) 4.Toi, M., Mukaida, H., Wada, T., et al.Antineoplastic effect of erbstatin on human mammary and esophageal tumors in athymic nude miceEur. J. Cancer26(6)722-724(1990)

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