

Canertinib

SYN-1030

N-[4-(3-Chloro-4-fluorophenylamino)-7-[3-(4-morpholinyl)propoxy]quinazolin-6-yl]-2-propenamamide dihydrochloride

CAS Registry No.: 267243-28-7

Smiles String:

C=CC(=O)Nc1cc2c(cc1OCCCN3CCOCC3)ncnc2Nc4ccc(c(c4)Cl)F

Molecular Weight: 485.94

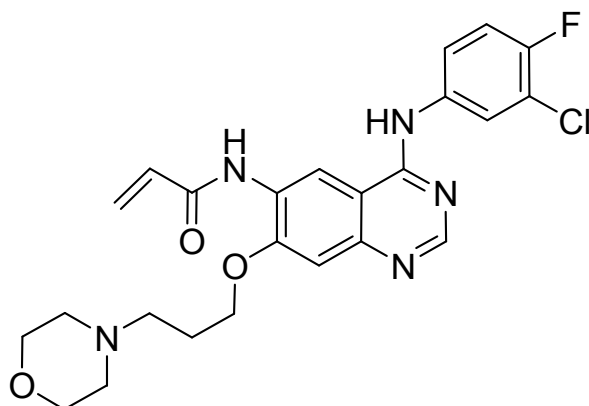
Molecular Formula: C₂₄H₂₅ClF₁N₅O₃

Lot Number: Refer to vial

¹H-NMR: Available on request

HPLC (Purity): > 95.0% @ 254 nm

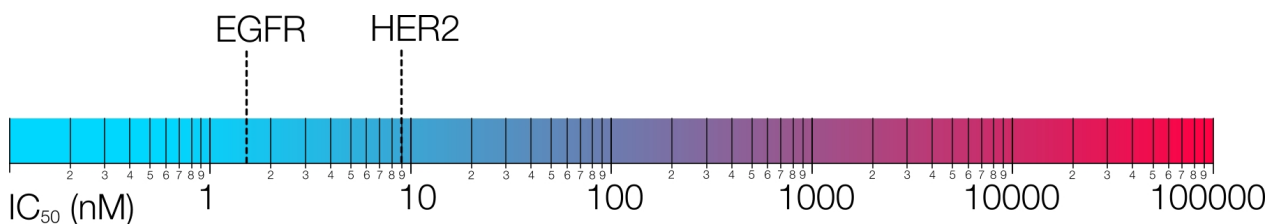
ES-MS: Available on request



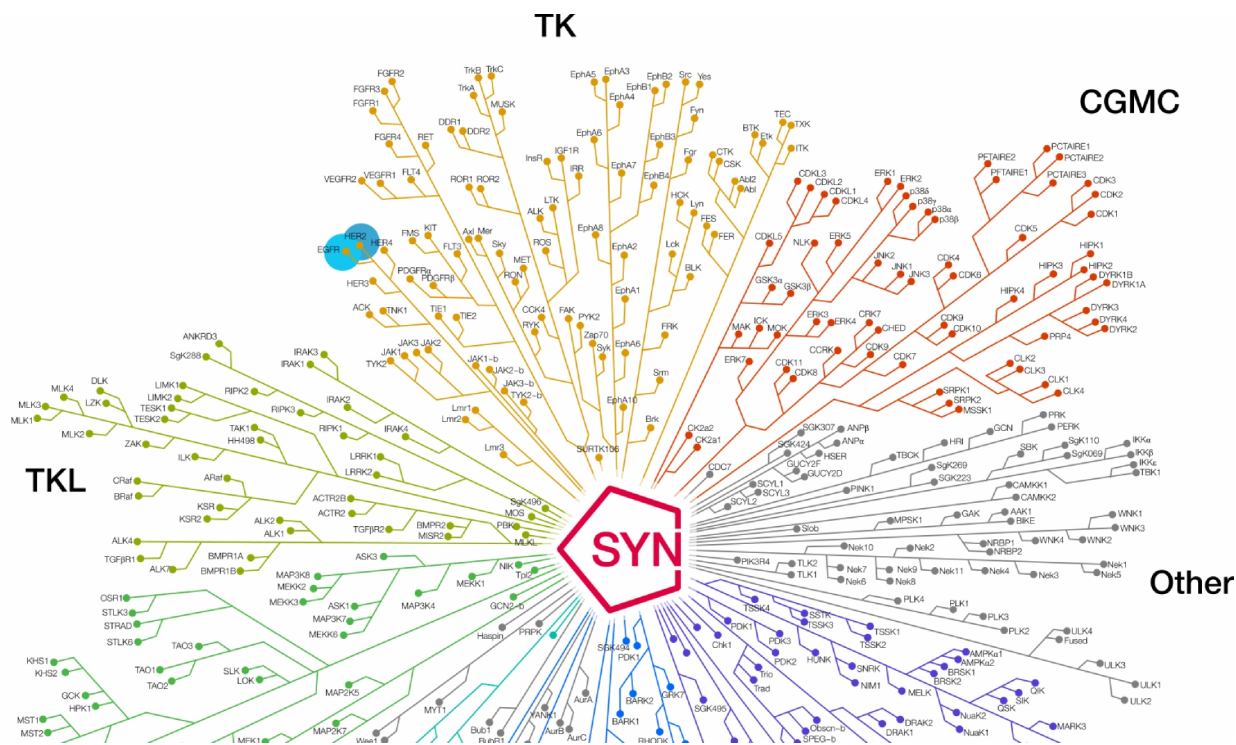
Description:

Canertinib is an orally bio-available EGFR inhibitor with potential anti-neoplastic and radio-sensitizing activities. It has IC₅₀ values of 1.5 nM and 9.0 nM against EGFR and ErbB2 respectively, with no activity against PDGFR, FGFR, InsR, PKC, or CDK1/2/4.

Biological Activity



Kinome Mapping



Shipping and Storage Temperature

Shipping:
Ambient

Storage:
2 years -20C, Powder 1 month, -4C in DMSO, More than one month -80C in DMSO

Solubility

DMSO 2mg/mL, Ethanol <9mg/mL

Preparing Stock Solutions

| Stock Solution (1ml DMSO) | 1mM | 10mM | 20mM | 50mM |
|---------------------------|--------|--------|--------|---------|
| Mass(mg) | 0.4860 | 4.8600 | 9.7200 | 24.3000 |

References

1. Erlichman C, Boerner SA, Hallgren CG, Spieker R, Wang XY, James CD, Scheffer GL, Maliepaard M, Ross DD, Bible KC, Kaufmann SH . The HER tyrosine kinase inhibitor CI1033 enhances cytotoxicity of 7-ethyl-10-hydroxycamptothecin and topotecan by inhibiting breast cancer resistance protein-mediated drug efflux. Cancer Res. 2001 Jan 15;61(2):739-48.

Ordering Information

To order more of this or any other SYNkinase compound, go to synkinase.com, Call us Toll Free (US Only) at 1- 877-854-6273 or email orders@synkinase.com.

Product Datasheet (Rev. 1.1)