

Vandetanib

SYN-1090

N-(4-bromo-2-fluorophenyl)-6-methoxy-7-((1-methylpiperidin-4-yl)methoxy)quinazolin-4-amine

CAS Registry No.: 443913-73-3

Smiles String:

CN1CCC(CC1)COc2cc3c(cc2OC)c(ncn3)Nc4ccc(cc4F)Br

Molecular Weight: 475.35

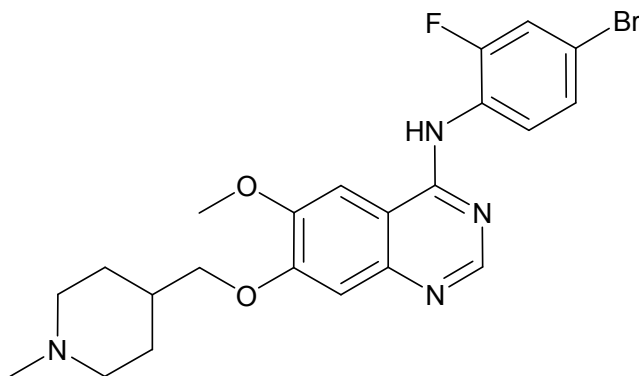
Molecular Formula: C₂₂H₂₄BrFN₄O₂

Lot Number: Refer to vial

¹H-NMR: Available on request

HPLC (Purity): > 95.0% @ 254 nm

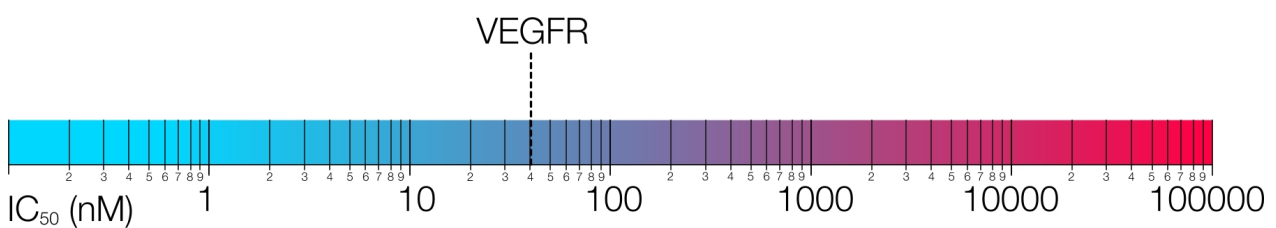
ES-MS: Available on request



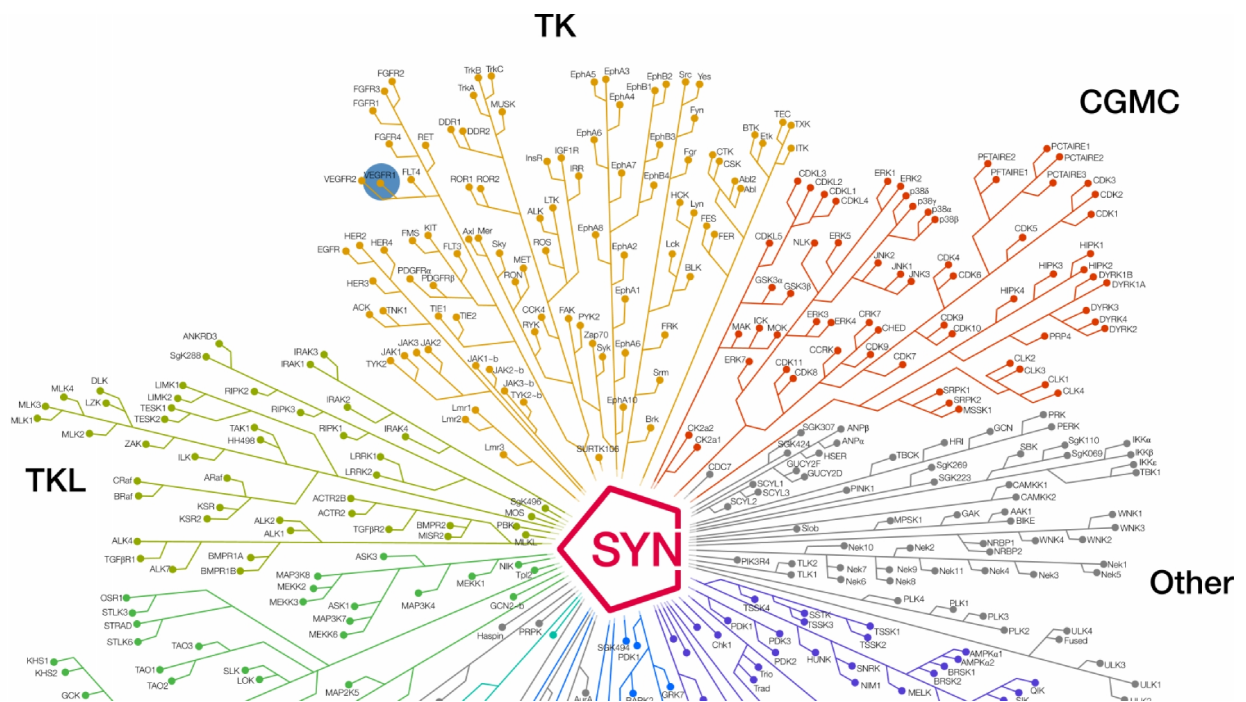
Description:

Vandetanib is a tyrosine kinase inhibitor that targets vascular endothelial growth factor receptor (VEGFR, IC₅₀ of 40 nM) and the epidermal growth factor receptor (EGFR).

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 4mg/mL, Ethanol 1mg/mL

Preparing Stock Solutions

| Stock Solution (1ml DMSO) | 1mM | 10mM | 20mM | 50mM |
|---------------------------|--------|--------|--------|---------|
| Mass(mg) | 0.4753 | 4.7535 | 9.5070 | 23.7675 |

References

1. Carlomagno F, Vitagliano D, Guida T, Ciardiello F, Tortora G, Vecchio G, Ryan AJ, Fontanini G, Fusco A, Santoro M. ZD6474, an orally available inhibitor of KDR tyrosine kinase activity, efficiently blocks oncogenic RET kinases. *Cancer Res.* 2002 Dec 15;62(24):7284-90.

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)