

ZSTK474

SYN-1099

2-(difluoromethyl)-1-(4,6-di-4-morpholinyl-1,3,5-triazin-2-yl)-1H-Benzimidazole

CAS Registry No.: 475110-96-4

Smiles String:

c1ccc2c(c1)nc(n2c3nc(nc(n3)N4CCOCC4)N5CCOCC5)C(F)F

Molecular Weight: 417.41

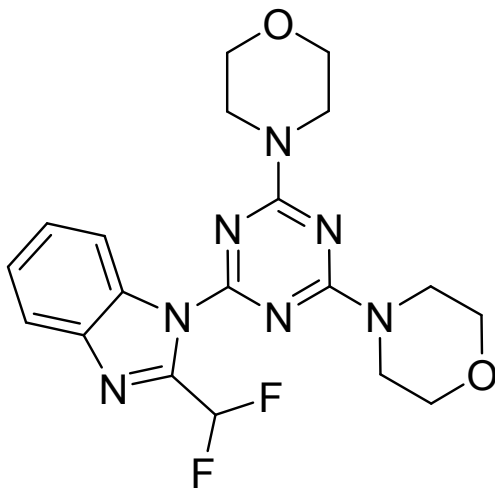
Molecular Formula: C₁₉H₂₁F₂N₇O₂

Lot Number: Refer to vial

¹H-NMR: Available on request

HPLC (Purity): > 95.0% @ 254 nm

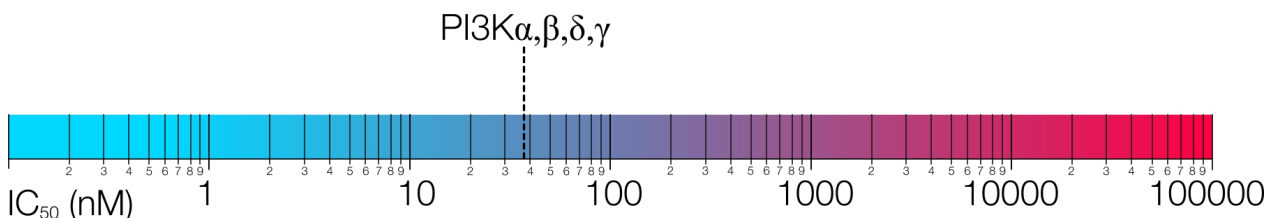
ES-MS: Available on request



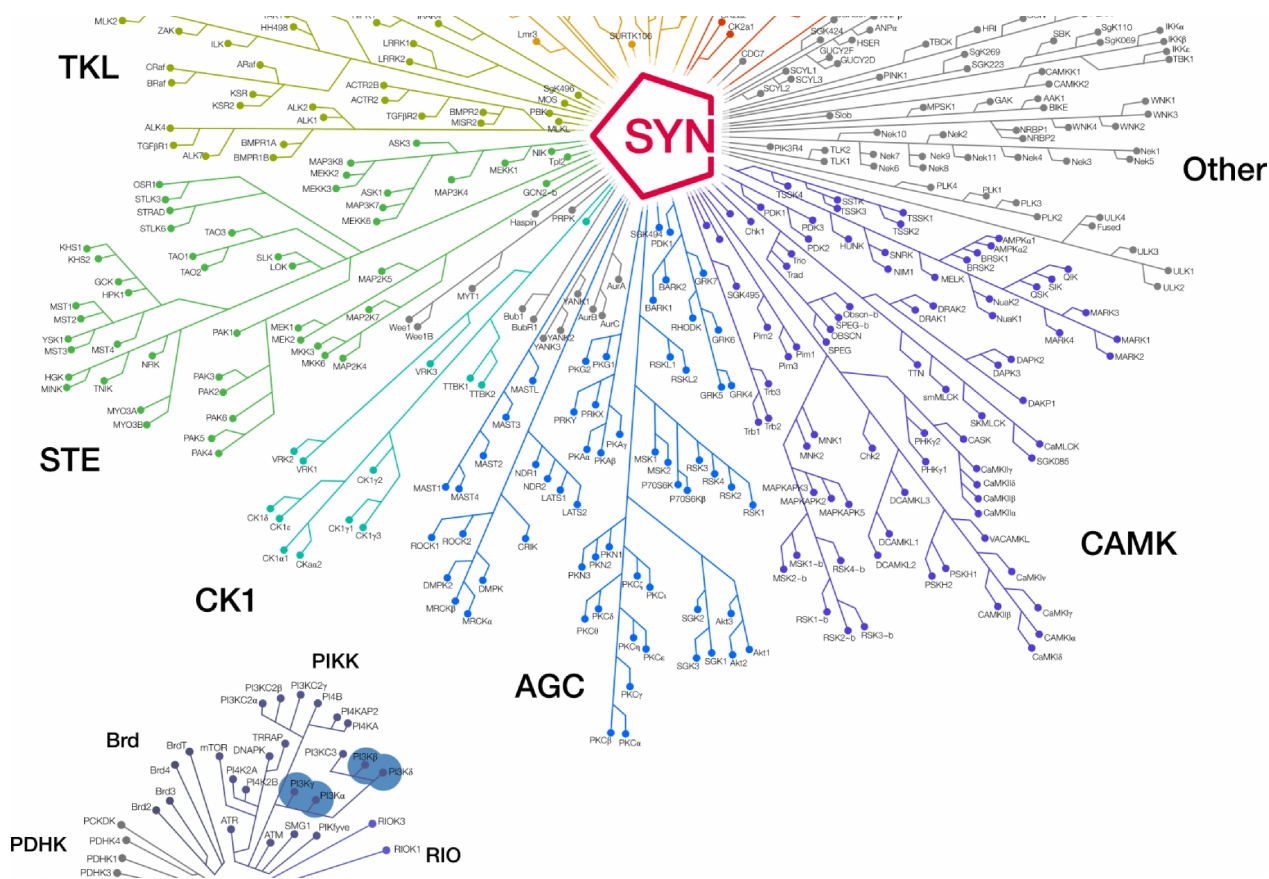
Description:

ZSTK474 inhibits all four PI3K isoforms in an ATP-competitive manner. IC₅₀ is approximately 37 nM.

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 21mg/mL, Ethanol <1mg/mL

Preparing Stock Solutions

Stock Solution (1ml DMSO)	1mM	10mM	20mM	50mM
Mass(mg)	0.4174	4.1741	8.3482	20.8705

References

1. Yaguchi S, Fukui Y, Koshimizu I, Yoshimi H, Matsuno T, Gouda H, Hirono S, Yamazaki K, Yamori T. Antitumor activity of ZSTK474, a new phosphatidylinositol 3-kinase inhibitor. J Natl Cancer Inst. 2006 Apr 19;98(8):545-56.

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)