

PRODUCT: ZSTK474

ALTERNATE NAME: 4,4'-(6-(2-(difluoromethyl)-1H-benzo[d]imidazol-1-yl)-1,3,5-triazine-2,4-diyl)dimorpholine

CATALOG NUMBER: 1597-25, 100

AMOUNT: 25 mg, 100 mg

STRUCTURE:

MOLECULAR FORMULA: C₁₉H₂₁F₂N₇O₂S

MOLECULAR WEIGHT: 417.41

CAS NUMBER: 475110-96-4

APPEARANCE: White solid

SOLUBILITY: DMSO (>20 mg/ml)

PURITY: ≥98% by HPLC

STORAGE: Store at -20 °C. Protect from air and light

DESCRIPTION: ZSTK474 is a reversible, potent and specific inhibitor of phosphoinositide 3-kinase (PI3K) isoforms ((IC₅₀s = 17, 53, and 6 nM for p110β, -γ, and -δ, respectively). More effective than LY 294,002 in vitro and as in vivo. Displays strong antitumor activities against human cancer xenografts (A549, PC-3 and WiDr) when administered orally to mice.

REFERENCES: Yaguchi, S.I., *et al. Journal of the National Cancer Institute* **98**, 545-556 (2006).

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

APY-0201 (Cat. No. 9564-5,25)

AS-604850 (Cat. No. 2339-1, 5)

BAG956 (Cat.No. 2456-5, 25)

BAY 80-6946 (Cat. No. B1267-5,25)

BEZ235 (NVP-BEZ235) (Cat. No. 1626-5, 25)

CAL-101 (Cat. No. 2613-5, 25)

GDC-0941 bismesylate (Cat. No. 1623-1, 5)

Deforolimus (Cat. No. 1587-5, 25)

DiscoveryPak™ PI 3-Kinase Inhibitor Panel (Cat. No. K856-5)

GDC-0941 (Cat. No. 1623-1,5)

GSK-263771 (Cat. No. 2793-5, 25)

IC87114 (Cat. No. 1661-1)

IPI-145 (Cat. No. 2445-5, 25)

LY 294002 (Cat. No. 1667-5, 25)

NVP-BKM120 (Cat. No. 2619-5, 25)

mTOR Inhibitor, Ku-0063794 (Cat. No. 1779-1,5)

OSU-03012, hydrochloride (Cat. No. 2295-5, 25)

PI-103 (Cat. No. 1728-1,5)

PIK-294 (Cat. No. 2614-5, 25)

PI3-Kγ Inhibitor, AS-605240 (Cat. No. 1780-1,5)

PathwayReady™ PI3-K/Akt/mTOR Signaling Inhibitor panel (Cat. No. K857-11)

PP242 (Cat. No. 1658-1)

PX-866 (Cat. No. 1965-1, 5)

Rapamycin (Cat. No. 1568-5, 50)

SAR260301 (Cat. No. B1263-5,25)

Temsirolimus (Cat. No. 1600-5, 25)

TGX-115 (Cat. No. 1660-1)

TGX-221 (Cat. No. 1781-1,5)

Wortmannin (Cat. No. 1670-1)

YM201636 (Cat. No. 2045-1, 5)

XL147 (Cat. No. 9401-5, 25)

USAGE: *FOR RESEARCH USE ONLY! Not to be used in humans*