



Product Information

Product ID Z7477

CAS No. 475110-96-4

Chemical Name

Synonym

Formula C₁₉H₂₁F₂N₇O₂

Formula Wt. 417.41

Melting Point

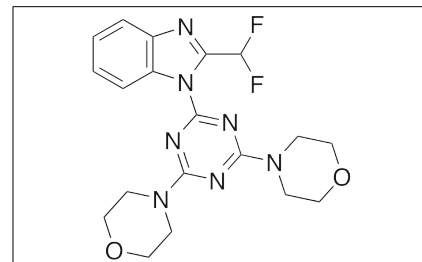
Purity ≥98%

Solubility DMSO 21 mg/mL (50.31 mM)
Water Insoluble
Ethanol Insoluble

Store Temp -20°C

Ship Temp Ambient

Description ZSTK474 is an inhibitor of PI3K that exhibits anticancer chemotherapeutic, anti-inflammatory, and anti-arthritis activities. ZSTK474 suppresses expression of matrix metalloproteinases (MMPs), VEGF, and HIF-1α, inhibiting migration, invasion, and adhesive capability of prostate cancer cells. ZSTK474 also induces G1 phase cell cycle arrest without inducing apoptosis in vitro and inhibits tumor growth in vivo. ZSTK474 inhibits the production of prostaglandin E2 (PGE2) in fibroblast-like synovial cells in vitro. In vivo, this compound decreases production of IFN-γ and IL-17, decreases the number of circulating T cells, and inhibits the progression of arthritis.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
Z7477	5 mg	\$49.50
Z7477	10 mg	\$92.70
Z7477	25 mg	\$166.80

References Zhao W, Guo W, Zhou Q, et al. In Vitro Antimetastatic Effect of Phosphatidylinositol 3-Kinase Inhibitor ZSTK474 on Prostate Cancer PC3 Cells. *Int J Mol Sci.* 2013 Jun 28;14(7):13577-91. PMID: 23812078.

Haruta K, Mori S, Tamura N, et al. Inhibitory effects of ZSTK474, a phosphatidylinositol 3-kinase inhibitor, on adjuvant-induced arthritis in rats. *Inflamm Res.* 2012 Jun;61(6):551-62. PMID: 22349137.

Dan S, Okamura M, Mukai Y, et al. ZSTK474, a specific phosphatidylinositol 3-kinase inhibitor, induces G1 arrest of the cell cycle in vivo. *Eur J Cancer.* 2012 Apr;48(6):936-43. PMID: 22088482.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.