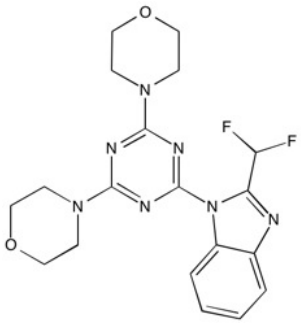
Tribioscience

ZSTK474, PI 3-Kinase inhibitor

Catalog	Unit
TBI2180-5MG	5 mg
TBI2180-25MG	25 mg

Product Details



Formal Name: 2-(2-Difluoromethylbenzoimidazol-1-yl)-4,6-dimorpholino-1,3,5-triazine
Molecular Formula: $C_{19}H_{21}F_2N_7O_2$
Formula Weight: 417.41
CAS Number: 475110-96-4
Purity: >98%
Formulation: powder
Solubility: Soluble in DMSO (up to 20 mg/ml) or in Ethanol (up to 2.5 mg/ml with warming).
Storage: -20°C
Stability: ≥ 2 years.

Applications

PI 3-Kinase inhibitor

Functions

Novel Class I phosphatidylinositol 3-kinase (PI3K) inhibitor. ZSTK474 is an ATP-competitive inhibitor of all four Class I PI3K isoforms. However, it inhibits PI3Kδ most potently, with a Ki of 1.8 nM, while inhibiting the α, β and γ isoforms at slightly higher concentrations (6.7 nM, 10.4 nM and 11.7 nM, respectively). Displays potent antitumor activity against human cancer xenografts (A549, PC-3 and WiDr) when administered to mice. It displays potent anti-inflammatory activity via modulation of human CD14+ monocyte-derived dendritic cell functions and suppresses experimental autoimmune encephalomyelitis. Ameliorates the progression of adjuvant-induced arthritis in a rat model.

Application Procedures

First dissolved in DMSO (up to 20 mg/ml) or in Ethanol (up to 2.5 mg/ml with warming), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20° for up to 3 months.

For research use only.

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