

Product Information

PI3K inhibitor ZSTK474, Purity $\geq 98\%$

Cat. No.: X24-05-ZQ178

Size: 10 mg; 50 mg; 100 mg

CAS Number: 475110-96-4

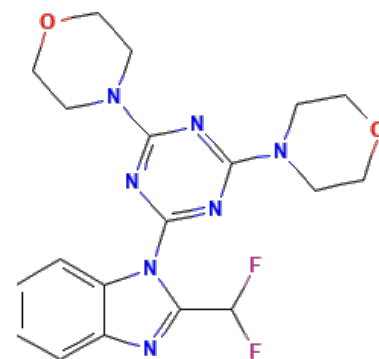
Compound CID: 11647372

Synonym: 475110-96-4; ZSTK474; ZSTK-474;

4,4'-(6-(2-(Difluoromethyl)-1H

-benzo[d]imidazol-1-yl)-1,3,5-triazine-2,4-diyl)dimorpholine; ZSTK 474; PI3K inhibitor

This product is for research use only and is not intended for diagnostic use.



Product Information

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| Description | ZSTK474, soluble in DMSO and insoluble in ethanol and water, is a potent compound that inhibits PI3 kinase activity. It targets PI3K, PI3K α , PI3K β , PI3K δ , and PI3K γ . |
| Molecular Weight | 417.4 |
| Molecular Formula | C ₁₉ H ₂₁ F ₂ N ₇ O ₂ |
| Targets | PI3K: 37 nM; PI3K α : 16 nM; PI3K β : 44 nM; PI3K δ : 4.6 nM; PI3K γ : 49 nM |
| IUPAC Name | 4-[4-[2-(Difluoromethyl)benzimidazol-1-yl]-6-morpholin-4-yl]-1,3,5-triazin-2-yl]morpholine |
| InChI | InChI=1S/C19H21F2N7O2/c20-15(21)16-22-13-3-1-2-4-14(13)28(16)19-24-17(26-5-9-29-10-6-26)23-18(25-19)27-7-11-30-12-8-27/h1-4,15H,5-12H2 |
| InChI Key | HGVNLRPZOWWDKD-UHFFFAOYSA-N |
| Canonical SMILES | C1COCCN1C2=NC(=NC(=N2)N3C4=CC=CC=C4N=C3C(F)F)N5CCOCC5 |
| Form | Lyophilized powder |
| Purity | $\geq 98\%$ |
| Solubility | DMSO: 20 mg/mL (47.91 mM); Water: Insoluble; Ethanol: Insoluble |
| Identity | Confirmed by NMR/HPLC/MS. |
| Stability | The product is stable for three years when stored at the recommended temperature in lyophilized powder. |
| Applications | ZSTK474 can be used to investigate the role of PI3K in cancer by inhibiting its activity. |
| Storage | Store at -20°C. |