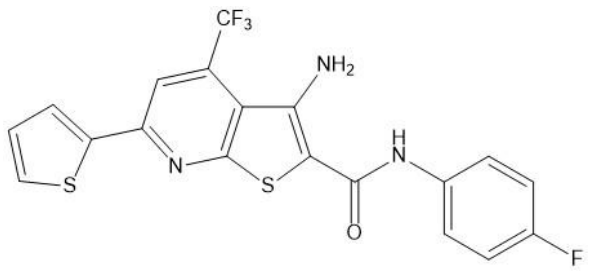
Tribioscience

FDI-6, FOXM1 inhibitor

Catalog	Unit
TBI4891-5MG	5 mg
TBI4891-25MG	25 mg

Product Details

Formal Name: 3-Amino-N-(4-fluorophenyl)-6-thiophen-2-yl-4-(trifluoromethyl)thieno[2,3-b]pyridine-2-carboxamide
Alternate Names: NCGC00099374
Molecular Formula: $C_{19}H_{11}F_4N_3OS_2$
Formula Weight: 437.4
CAS Number: 313380-27-7
Purity: >98%
Formulation: Powder
Solubility: Soluble in DMSO (up to at least 30 mg/ml)
Storage: -20°C
Stability: ≥ 2 years.



Applications

FOXM1 inhibitor

Functions

Selectively blocks FOXM1 binding to DNA (IC_{50} = 22.5 μM) in MCF-7 breast cancer cells and suppresses transcription of FOXM1 genes. It decreased cell proliferation, migration, and invasion in MDA-MB-231 and HS578T triple negative breast cancer cell lines. Acted synergistically with olaparib to inhibit the growth of triple negative breast and pancreatic cancer cells. It was found to induce the mRNA expression of aryl hydrocarbon receptor genes with subsequent suppression of tumorsphere formation in MCF-7 cells. FDI-6 enhanced T cell activation, supported differentiation of CD8+ cells, and T cell-mediated killing of small cell lung cancer cells.

Application Procedures

First dissolved in DMSO (up to at least 30 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

For research use only.