

Product Name	: LCH-7749944
Synonyms	: GNF-PF-2356
Cat No.	: M22466
CAS Number	: 796888-12-5
Molecular Formula	: C ₂₀ H ₂₂ N ₄ O ₂
Formula Weight	: 350.41
Chemical Name	: —
Description	LCH-7749944 effectively suppresses the proliferation of human gastric cancer cells through downregulation of PAK4/c-Src/EGFR/cyclin D1 pathway and induces apoptosis. LCH-7749944 is a potent PAK4 inhibitor with an IC₅₀ of 14.93 μM. LCH-7749944 (5-20 μM; 12-48 hours) prominently induces a dose-dependent increase in the percentage of cells in G₁ phase and decrease in S phase. LCH-7749944 (5-30 μM; 24 hours) dramatically decreases levels of phosphoPAK4, phospho-c-Src, phospho-EGFR and cyclin D1 protein expression in a dose-dependent manner. LCH-7749944 (GNF-PF-2356; 5-50 μM; 24 hours) inhibits the proliferation of MKN-1, BGC823, SGC7901 and MGC803 cells in a concentration dependent manner. LCH-7749944 (5-20 μM; 12-48 hours) induces apoptosis of SGC7901 cells.
Pathway	: Apoptosis
Target	: Apoptosis
Receptor	: PAK4;apoptosis
Solubility	: DMSO:250 mg/mL (713.45 mM; Need ultrasonic)
SMILES	: <chem>COc1cccc(Nc2nc(NCC3CCCCO3)c3ccccc3n2)c1</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Zhang J, et al. LCH-7749944, a novel and potent p21-activated kinase 4 inhibitor, suppresses proliferation and invasion in human gastric cancer cells. Cancer Lett. 2012 Apr 1;317(1):24-32.