

Product Name : L-779450

Synonyms : L779450

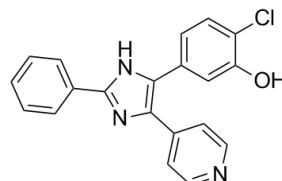
Cat No. : M13958

CAS Number : 303727-31-3

Molecular Formula : C₂₀H₁₄ClN₃O

Formula Weight : 347.80

Chemical Name : Phenol, 2-chloro-5-[2-phenyl-4-(4-pyridinyl)-1H-imidazol-5-yl]-



Description : L-779450 is a potent, ATP-competitive Raf kinase inhibitor with IC₅₀ of 10 nM, displays >7, >30 and >70-fold selectivity over p38α, GSK3β and Lck respectively; suppresses DNA synthesis and induced apoptosis in hematopoietic FDC-P1 cells transformed to grow in response to either Raf-1 or A-Raf, L-779,450 is less effective on B-Raf- or MEK1-responsive cells, also suppresses DNA synthesis and induces apoptosis in Raf-responsive cells and the effects are more significant on Raf-responsive compared to cytokine-mediated growth.

Pathway : MAPK/ERK Signaling

Target : Raf

Receptor : Raf

Solubility : DMSO: ≥ 34 mg/mL

SMILES : OC1=CC(C2=C(C3=CC=NC=C3)NC(C4=CC=CC=C4)=N2)=CC=C1Cl

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Shelton JG, et al. Leukemia. 2003 Sep;17(9):1765-82. | 2. Takle AK, et al. Bioorg Med Chem Lett. 2008 Aug 1;18(15):4373-6. | 3. McKay MM, et al. Curr Biol. 2011 Apr 12;21(7):563-8. | 4. Berger A, et al. J Invest Dermatol. 2014 Feb;134(2):430-440.