

Product Name: L-779,450**Catalog No.:** 3185**Batch No.:** 1

CAS Number: 303727-31-3

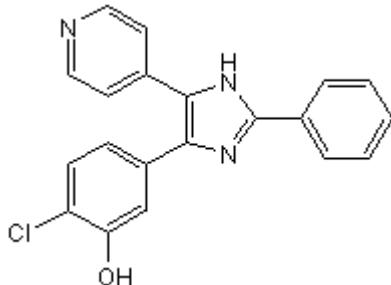
IUPAC Name: 2-Chloro-5-[2-Phenyl-5-(4-pyridinyl)-1*H*-imidazol-4-yl]phenol**Description:**

Potent, ATP-competitive Raf kinase inhibitor ($IC_{50} = 10$ nM) that displays > 7 , > 30 and > 70 -fold selectivity over p38 α , GSK3 β and Lck respectively. Suppresses DNA synthesis and induces apoptosis in cells that proliferate in response to Raf-1 and A-Raf but not B-Raf.

Physical and Chemical Properties:Batch Molecular Formula: $C_{20}H_{14}ClN_3O_{1/2}H_2O$

Batch Molecular Weight: 356.81

Physical Appearance: Beige solid

Minimum Purity: >99%**Batch Molecular Structure:****Storage:** Store at +4°C**Solubility & Usage Info:**DMSO to 100 mM
ethanol to 100 mM**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

White (2003) Small-molecule inhibitors of signal transduction pathways in leukemia therapeutics: how to assess selectivity for malignant signals. *Leukemia* **17** 1759. PMID: 12970775.

Shelton *et al* (2003) Differential effects of kinase cascade inhibitors on neoplastic and cytokine-mediated cell proliferation. *Leukemia* **17** 1765. PMID: 12970777.

Takle *et al* (2006) Identification of potent and selective imidazole-based inhibitors of B-Raf kinase. *Bioorg.Med.Chem.Letts.* **16** 378.

Röring *et al* (2012) Distinct requirement for an intact dimer interface in wild-type, V600E and kinase-dead B-Raf signalling. *EMBO J.* **31** 2629. PMID: 22510884.

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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