

Product Name: LY 2109761

Catalog No.: 7864

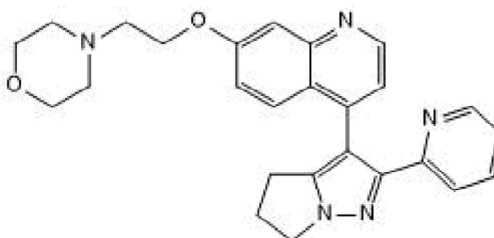
Batch No.: 1

CAS Number: 700874-71-1

IUPAC Name: 4-[5,6-Dihydro-2-(2-pyridinyl)-4H-pyrrolo[1,2-b]pyrazol-3-yl]-7-[2-(4-morpholinyl)ethoxy]quinoline

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₆H₂₇N₅O₂.
Batch Molecular Weight: 441.53
Physical Appearance: Off White solid
Solubility: DMSO to 20 mM with gentle warming
 ethanol to 20 mM with gentle warming
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	70.73	6.16	15.86
Found	70.33	6.05	15.56

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

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Description:

LY 2109761 is a selective TGF- β receptor type I/II (T β RI/II) kinase dual inhibitor with (K_i = 38 nM and 300 nM in a cell-free assay, respectively). In vitro, it significantly inhibits the growth, motility, and invasiveness of L3.6pl/GLT pancreatic cancer cells and completely suppresses TGF- β -induced Smad2 phosphorylation. In vivo, LY 2109761, in combination with gemcitabine, significantly reduces tumor volume and spontaneous abdominal metastases in a murine model of metastatic pancreatic cancer. LY 2109761 is orally bioavailable.

Physical and Chemical Properties:

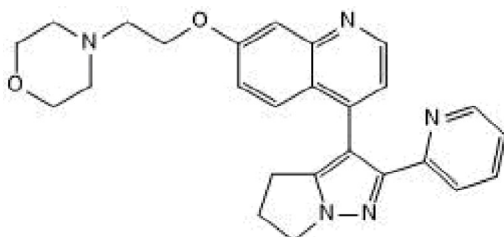
Batch Molecular Formula: C₂₆H₂₇N₅O₂.

Batch Molecular Weight: 441.53

Physical Appearance: Off White solid

Minimum Purity: \geq 98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 20 mM with gentle warming
ethanol to 20 mM with gentle warming

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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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:

Melisi et al (2008) LY2109761, a novel transforming growth factor beta receptor type I and type II dual inhibitor, as a therapeutic approach to suppressing pancreatic cancer metastasis. *Mol.Cancer Ther.* **7** 829. PMID: 18413796.

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