

Product Name: R 1530

Catalog No.: 4885

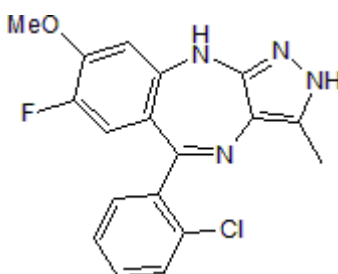
Batch No.: 2

CAS Number: 882531-87-5

IUPAC Name: 5-(2-Chlorophenyl)-7-fluoro-1,2-dihydro-8-methoxy-3-methylpyrazolo[3,4-*b*][1,4]benzodiazepine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₁₄ClFN₄O
Batch Molecular Weight: 356.78
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.5 (Ethyl acetate:Methanol [19:1])
HPLC: Shows 98.1% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	60.6	3.95	15.7
Found	60.25	4.06	15.49

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

Product Name: R 1530

Catalog No.: 4885

Batch No.: 2

CAS Number: 882531-87-5

IUPAC Name: 5-(2-Chlorophenyl)-7-fluoro-1,2-dihydro-8-methoxy-3-methylpyrazolo[3,4-*b*][1,4]benzodiazepine

Description:

Multi-kinase inhibitor. Exhibits inhibitory activity against Chk2, KDR, FGFR, Aurora A kinase and Cdk2 (IC_{50} values are 24, 34, 50, 58 and 88 nM respectively). Also binds VEGFR-2, FGFR1 and PDGFR β (K_d values are 0.015, 0.061 and 0.088 μ M respectively). Displays antiproliferative activity in vitro; inhibits mitosis and angiogenesis. Orally bioavailable.

Physical and Chemical Properties:

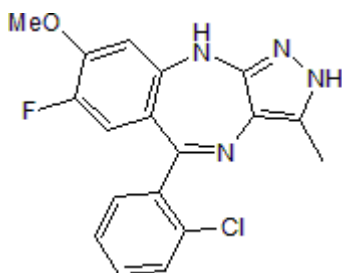
Batch Molecular Formula: $C_{18}H_{14}ClFN_4O$

Batch Molecular Weight: 356.78

Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Tovar et al (2010) Small-molecule inducer of cancer cell polyploidy promotes apoptosis or senescence: implications for therapy. *Cell Cycle* **9** 3364. PMID: 20814247.

Liu et al (2013) Discovery of a highly potent, orally active mitosis/angiogenesis inhibitor R1530 for the treatment of solid tumors. *ACS Med.Chem.Lett.* **4** 259.

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.

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

Tocris Bioscience is an R&D Systems company
USA & CANADA Tel: (800) 343-7475 EUROPE Tel: +44 (0)1235 529449 CHINA Tel: +86 (21) 52380373
www.RnDSystems.com

R&D
SYSTEMS®