

Product Name: DMH4

Catalog No.: 4471

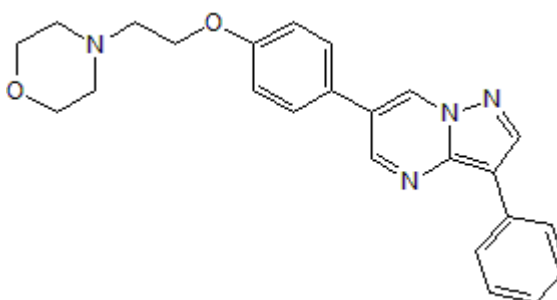
Batch No.: 1

CAS Number: 515880-75-8

IUPAC Name: 6-[4-[2-(4-Morpholinyl)ethoxy]phenyl]-3-phenylpyrazolo[1,5-a]pyrimidine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₂₄N₄O₂
Batch Molecular Weight: 400.47
Physical Appearance: Yellow solid
Solubility: DMSO to 50 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.3% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	71.98	6.04	13.99
Found	71.95	5.86	13.93

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

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IUPAC Name: 6-[4-[2-(4-Morpholinyl)ethoxy]phenyl]-3-phenylpyrazolo[1,5-a]pyrimidine

Description:

Selective VEGFR-2 inhibitor (IC_{50} values are 161, 3558, 8038 and > 30000 nM for VEGFR-2, BMPR-I, AMPK and TGF β R-I respectively). Displays antiangiogenic activity in vitro and in vivo.

Physical and Chemical Properties:

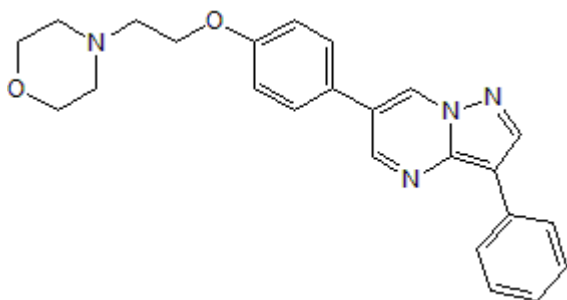
Batch Molecular Formula: $C_{24}H_{24}N_4O_2$

Batch Molecular Weight: 400.47

Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 50 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:

Fraley et al (2002) Optimization of a pyrazolo[1,5-a]pyrimidine class of KDR kinase inhibitors: improvements in physical properties enhance cellular activity and pharmacokinetics. *Bioorg.Med.Chem.Lett.* **12** 3537. PMID: 12443771.

Hao et al (2010) In vivo structure-activity relationship study of dorsomorphin analogues identifies selective VEGF and BMP inhibitors. *ACS Chem.Biol.* **5** 245. PMID: 20020776.

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