

Product Name: SPP 86

Catalog No.: 5391

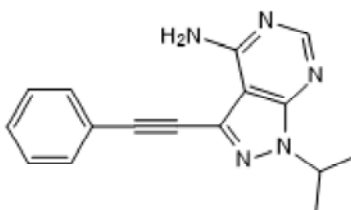
Batch No.: 1

CAS Number: 1357349-91-7

IUPAC Name: 1-(1-Methylethyl)-3-(2-phenylethynyl)-1*H*-pyrazolo[3,4-*d*]pyrimidin-4-amine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₁₅N₅·¼H₂O
Batch Molecular Weight: 281.82
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
 ethanol to 20 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.7 (Dichloromethane:Methanol [9:1])
HPLC: Shows 98.6% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	68.19	5.54	24.85
Found	68.56	5.42	24.82

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

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Description:

Potent RET inhibitor (IC₅₀ = 8 nM). Also exhibits inhibitory activity at EphA1, FGFR1, Flt4, Lck and Yes. Inhibits proliferation of HCT 116 and TPC1 cells in vitro. Cell permeable.

Physical and Chemical Properties:

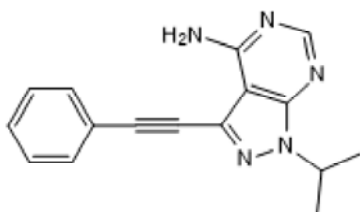
Batch Molecular Formula: C₁₆H₁₅N₅·¼H₂O

Batch Molecular Weight: 281.82

Physical Appearance: Yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 20 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:

Diné *et al* (2012) Preparation of 3-substituted-1-isopropyl-1H-pyrazolo[3,4-d]pyrimidin-4-amines as RET kinase inhibitors. *J.Med.Chem.* **55** 4872. PMID: 22559926.

Klein *et al* (2011) Design, synthesis and characterization of a highly effective inhibitor for analog-sensitive (as) kinases. *PLoS ONE* **6** e20789. PMID: 21698101.

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