

**Product Name:** 7rh

**Catalog No.:** 5860

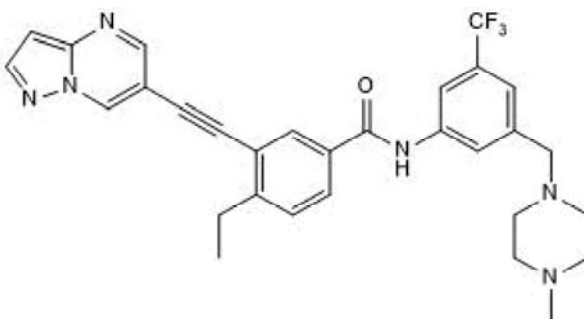
**Batch No.:** 3

CAS Number: 1429617-90-2

IUPAC Name: 4-Ethyl-N-[3-[(4-methyl-1-piperazinyl)methyl]-5-(trifluoromethyl)phenyl]-3-(2-pyrazolo[1,5-a]pyrimidin-6-ylethynyl)benzamide

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>30</sub>H<sub>29</sub>F<sub>3</sub>N<sub>6</sub>O.  
**Batch Molecular Weight:** 546.59  
**Physical Appearance:** Off White solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 98.4% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	65.92	5.35	15.38
Found	65.6	5.41	15.33

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

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**Description:**

7rh is a potent and selective DDR1 inhibitor (IC<sub>50</sub> = 6.8 nM). Exhibits selectivity for DDR1 over DDR2, Bcr-Abl and c-Kit (IC<sub>50</sub> values are 101.4 and 355 nM and > 10 μM, respectively) and a range of other kinases. Inhibits proliferation of cancer cell lines expressing high levels of DDR1 in vitro and suppresses cancer cell invasion, adhesion and tumorigenicity. Orally bioavailable.

**Physical and Chemical Properties:**

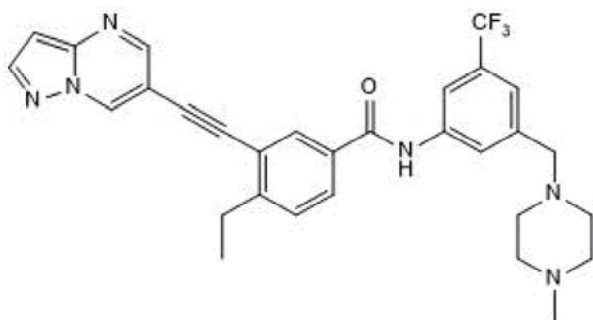
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Batch Molecular Weight: 546.59

Physical Appearance: Off White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO 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:**

Gao *et al* (2013) Discovery and optimization of 3-(2-(pyrazolo[1,5-a]pyrimidin-6-yl)ethynyl)benzamides as novel selective and orally bioavailable discoidin domain receptor 1 (DDR1) inhibitors. *J.Med.Chem.* **56** 3281. PMID: 23521020.

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