

**Product Name:** RMM 46

**Catalog No.:** 5909

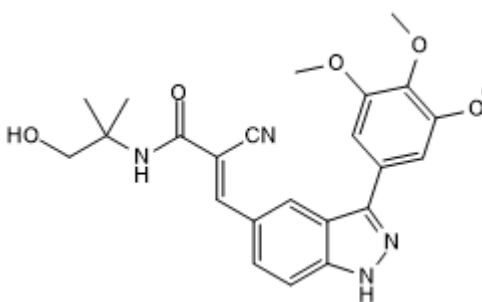
**Batch No.:** 1

CAS Number: 1307896-46-3

IUPAC Name: 2-Cyano-*N*-(2-hydroxy-1,1-dimethylethyl)-3-[3-(3,4,5-trimethoxyphenyl)-1*H*-indazol-5-yl]-2-propenamide

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>24</sub>H<sub>26</sub>N<sub>4</sub>O<sub>5</sub>  
**Batch Molecular Weight:** 450.5  
**Physical Appearance:** Yellow solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.41 (Ethyl acetate:Petroleum ether [9:1])  
**HPLC:** Shows 98.8% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	63.99	5.82	12.44
Found	63.78	5.77	12.38

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

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**Description:**

MSK/RSK family kinase inhibitor. Exhibits selectivity for RSK2 over NEK2 and PLK1 (IC<sub>50</sub>s are 12, 530 and 2200 nM, respectively). Inhibits MSK1, MSK2, RSK2 and RSK3 in cellular assays. Reduces CREB phosphorylation in HeLa cells.

**Physical and Chemical Properties:**

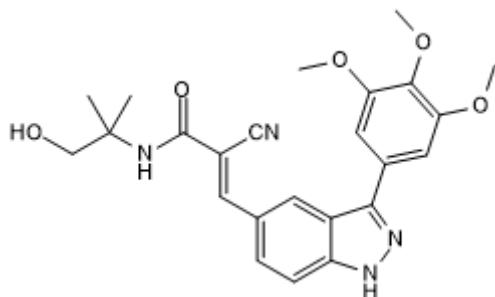
Batch Molecular Formula: C<sub>24</sub>H<sub>26</sub>N<sub>4</sub>O<sub>5</sub>

Batch Molecular Weight: 450.5

Physical Appearance: Yellow solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

**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:**

Miller *et al* (2013) Electrophilic fragment-based design of reversible covalent kinase inhibitors. *J.Am.Chem.Soc.* **135** 5298. PMID: 23540679.

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