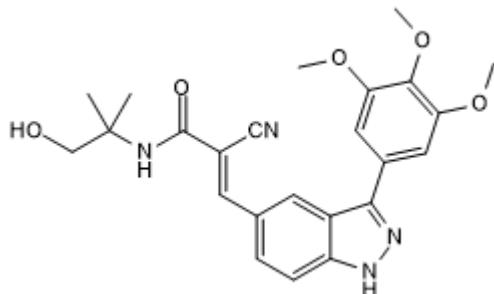


Certificate of Analysiswww.tocris.com**Product Name:** RMM 46**Catalog No.:** 5909**Batch No.:** 1

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:** C₂₄H₂₆N₄O₅**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_f = 0.41 (Ethyl acetate:Petroleum ether [9:1])**HPLC:** Shows 98.8% purity**¹H 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 (IC₅₀s are 12, 530 and 2200 nM, respectively). Inhibits MSK1, MSK2, RSK2 and RSK3 in cellular assays. Reduces CREB phosphorylation in HeLa cells.

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.

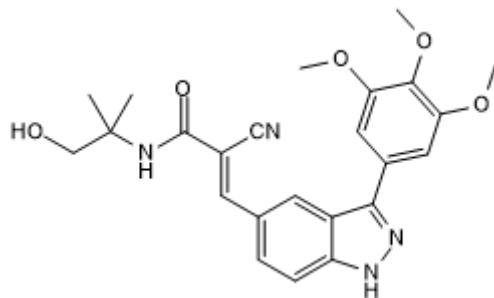
Physical and Chemical Properties:

 Batch Molecular Formula: C₂₄H₂₆N₄O₅

Batch Molecular Weight: 450.5

Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:

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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