

Product data sheet



MedKoo Cat#: 406972 Name: RKI-1313 CAS#: 1342276-76-9 Chemical Formula: C ₁₇ H ₁₆ N ₄ O ₂ S Exact Mass: 340.0994 Molecular Weight: 340.40		
Product supplied as:	Powder	
Purity (by HPLC):	≥ 98%	
Shipping conditions	Ambient temperature	
Storage conditions:	Powder: -20°C 3 years; 4°C 2 years. In solvent: -80°C 3 months; -20°C 2 weeks.	

1. Product description:

RKI-1313 is a negative control for RKI-1447 (GLXC-05200), a potent inhibitor of the Rho-associated ROCK kinases with anti-invasive and antitumor activities in breast cancer.

2. CoA, QC data, SDS, and handling instruction

SDS and handling instruction, CoA with copies of QC data (NMR, HPLC and MS analytical spectra) can be downloaded from the product web page under “QC And Documents” section. Note: copies of analytical spectra may not be available if the product is being supplied by MedKoo partners. Whether the product was made by MedKoo or provided by its partners, the quality is 100% guaranteed.

3. Solubility data

Solvent	Max Conc. mg/mL	Max Conc. mM
DMF	30	88.13
DMSO	30	88.13

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	2.94 mL	14.69 mL	29.38 mL
5 mM	0.59 mL	2.94 mL	5.88 mL
10 mM	0.29 mL	1.47 mL	2.94 mL
50 mM	0.06 mL	0.29 mL	0.59 mL

5. Molarity Calculator, Reconstitution Calculator, Dilution Calculator

Please refer the product web page under section of “Calculator”

6. Recommended literature which reported protocols for in vitro and in vivo study

In vitro study

To be determined

In vivo study

- Patel RA, Forinash KD, Pireddu R, Sun Y, Sun N, Martin MP, Schönbrunn E, Lawrence NJ, Sebt SM. RKI-1447 is a potent inhibitor of the Rho-associated ROCK kinases with anti-invasive and antitumor activities in breast cancer. Cancer Res. 2012 Oct 1;72(19):5025-34. doi: 10.1158/0008-5472.CAN-12-0954. Epub 2012 Jul 30. PMID: 22846914; PMCID: PMC3463757.

7. Bioactivity

Biological target:

RKI-1313 is an inhibitor of Rho-associated kinase 1 (ROCK1) and 2 (IC₅₀s = 34 and 8 μM, respectively).

In vitro activity

To be determined

In vivo activity

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Compared to RKI-1447, RKI-1313 was a much weaker analog in vitro, had little effect on the phosphorylation levels of ROCK substrates, migration, invasion or anchorage-independent growth.

Reference: Cancer Res. 2012 Oct 1;72(19):5025-34. <https://pubmed.ncbi.nlm.nih.gov/22846914/>

Note: The information listed here was extracted from literature. MedKoo has not independently retested and confirmed the accuracy of these methods. Customer should use it just for a reference only.