

Certificate of Analysis

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Product Name: RS 246204

Catalog No.: 8853

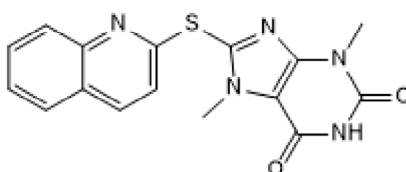
Batch No.: 1

CAS Number: 878451-87-7

IUPAC Name: 3,7-Dihydro-3,7-dimethyl-8-(2-quinolinylthio)-1*H*-purine-2,6-dione

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₁₃N₅O₂S.
Batch Molecular Weight: 339.37
Physical Appearance: White solid
Solubility: DMSO to 5 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.6% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	56.63	3.86	20.64
Found	56.51	3.81	20.76

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

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Description:

RS 246204 is a R-Spondin-1 substitute. Able to initiate formation and growth of mouse intestinal organoids in media without R-Spondin-1 protein. In vivo, RS 24620 has regenerative effect in damaged intestinal epithelium mouse model.

Physical and Chemical Properties:

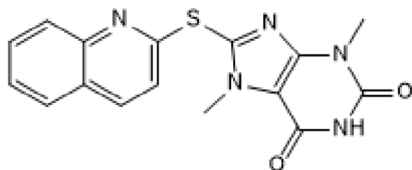
Batch Molecular Formula: C₁₆H₁₃N₅O₂S.

Batch Molecular Weight: 339.37

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 5 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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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:

Nam et al (2017) Effects of a small molecule R-spondin-1 substitute RS-246204 on a mouse intestinal organoid culture. *Oncotarget* **9** 6356. PMID: 29464078.

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