

Certificate of Analysis

www.tocris.com

Product Name: DSR 6434

Catalog No.: 4809

Batch No.: 2

CAS Number: 1059070-10-8

IUPAC Name: 6-Amino-2-(butylamino)-9-[[6-[2-(dimethylamino)ethoxy]-3-pyridinyl]methyl]-7,9-dihydro-8*H*-purin-8-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₂₈N₈O₂·³/₄H₂O

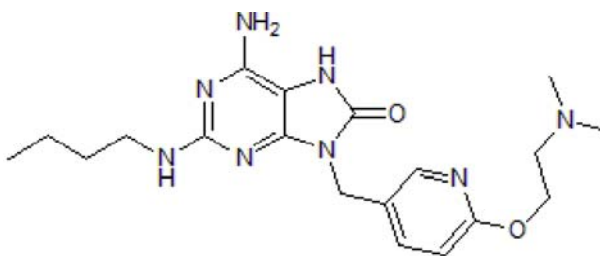
Batch Molecular Weight: 413.99

Physical Appearance: Off White solid

Solubility: 1eq. HCl to 50 mM
DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.26 (Dichloromethane:Methanol:NH₄OH [1:10:0.5])

HPLC: Shows 99.6% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	55.12	7.18	27.07
Found	54.9	7.16	27.15

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956

Product Name: DSR 6434

Catalog No.: 4809

Batch No.: 2

CAS Number: 1059070-10-8

IUPAC Name: 6-Amino-2-(butylamino)-9-[[6-[2-(dimethylamino)ethoxy]-3-pyridinyl]methyl]-7,9-dihydro-8H-purin-8-one

Description:

Potent TLR7 agonist (EC₅₀ = 7.2 nM). Activates several immune effector cells in vitro. Suppresses metastasis in vivo and enhances efficacy of radiation therapy in a model of colorectal carcinoma.

Physical and Chemical Properties:

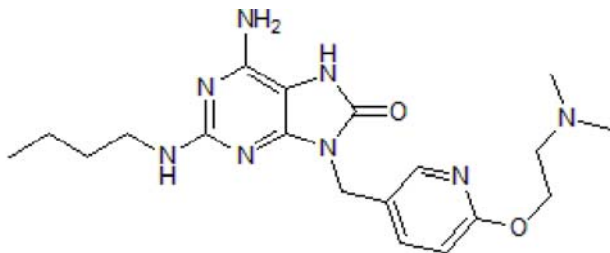
Batch Molecular Formula: C₁₉H₂₈N₈O₂·¼H₂O

Batch Molecular Weight: 413.99

Physical Appearance: Off White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Adlard *et al* (2014) A novel systemically administered Toll-like receptor 7 agonist potentiates the effect of ionizing radiation in murine solid tumor models. *Int.J.Cancer* **135** 820. PMID: 24390981.

Nakamura *et al* (2013) Synthesis and evaluation of 8-oxoadenine derivatives as potent Toll-like receptor 7 agonists with high water solubility. *Bioorg.Med.Chem.Lett.* **23** 669. PMID: 23265901.

Storage: Store at -20°C

Solubility & Usage Info:

1eq. HCl to 50 mM

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.

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956