Print Date: Jul 14th 2022

Certificate of Analysis

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Product Name: **SGC 3027** **Catalog No.: 6825** **Batch No.: 1**

CAS Number: 2624313-13-7

IUPAC Name: *N*-(4-((((2*S*,3*S*,4*R*,5*R*)-5-(6-Amino-9*H*-purin-9-yl)-3,4-dihydroxytetrahydrofuran-2-yl)methyl)thio)butyl)-*N*-((4'-chloro-[1,1'-biphenyl]-3-yl)methyl)-3-methyl-3-(2,4,5-trimethyl-3,6-dioxocyclohexa-1,4-dien-1-yl)butanamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{41}H_{47}ClN_6O_6S.¼H_2O$

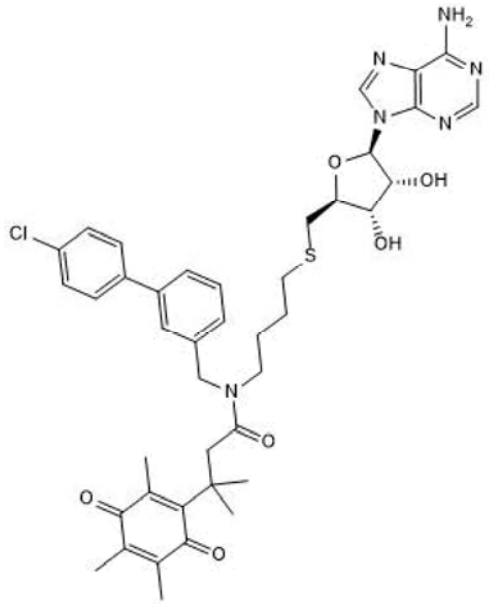
Batch Molecular Weight: 791.87

Physical Appearance: Yellow solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 96.7% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	62.19	6.05	10.61
Found	61.77	6.15	10.56

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 Information

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Description:

SGC 3027 is a potent and selective PRMT7 inhibitor (IC_{50} < 2.5 nM); pro-drug of SGC 8158. Methylates H2B (23-37). Exhibits > 40-fold selectivity over other histone methyltransferases and non-epigenetic targets. Inhibits methylation of HSP70 in C2C12 cells. Negative control, SGC 3027N (Cat. No. 6838) also available.

Physical and Chemical Properties:

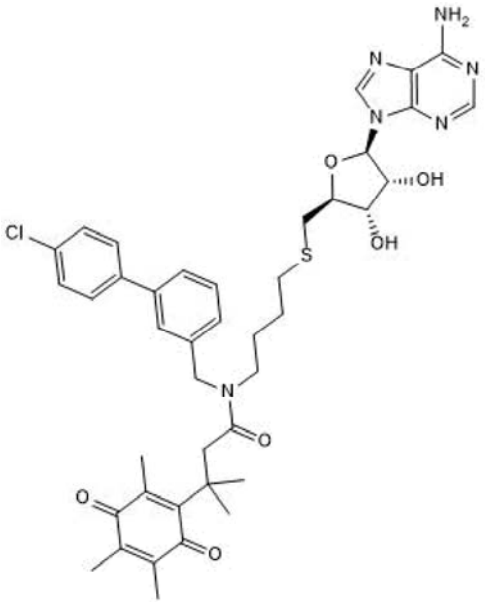
Batch Molecular Formula: $C_{41}H_{47}ClN_6O_6S.¼H_2O$

Batch Molecular Weight: 791.87

Physical Appearance: Yellow solid

Minimum Purity: ≥97%

Batch Molecular Structure:



Storage: Store at -20°C

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.

Licensing Information:

This probe is supplied in conjunction with the Structural Genomics Consortium. For further characterization details, please visit the SGC 3027 probe summary on the SGC website.

References:

Szewczyk *et al* (2020) Pharmacological inhibition of PRMT7 links arginine monomethylation to the cellular stress responses. Nat.Commun. ***11*** 2396. PMID: 32409666.