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Certificate of Analysis

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RG 108 Product Name:

Storage:

CAS Number: 48208-26-0 IUPAC Name: N-Phthalyl-L-tryptophan

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility:

Batch Molecular Structure:

334.33 Yellow solid DMSO to 100 mM ethanol to 100 mM Store at RT

C₁₉H₁₄N₂O₄

co.

2. ANALYTICAL DATA

TLC: HPLC: ¹H NMR: Mass Spectrum: **Optical Rotation: Microanalysis:**

R_f = 0.5 (Dichloromethane:Methanol:Ammonia soln. [94:5:1]) Shows 99.2% purity Consistent with structure Consistent with structure $[\alpha]_D$ = -319.8 (Concentration = 1, Solvent = Ethanol) Carbon Hydrogen Nitrogen Theoretical 68.26 4.22 8.38 Found 67.96 4.21 8.23

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

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Catalog No.: 3295

Batch No.: 2

TOCRIS a biotechne brand

Print Date: Jul 26th 2018

www.tocris.com

Product Name: RG 108

CAS Number: 48208-26-0 IUPAC Name: *N*-Phthalyl-L-tryptophan

Description:

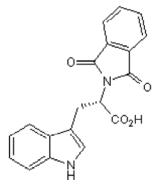
Non-nucleoside DNA methyltransferase inhibitor that blocks the enzyme active site. Inhibits DNA methylation in human cancer cell lines in vitro without detectable toxicity. Demethylates and reactivates epigenetically silenced tumor suppressor genes. Enhances the efficiency of induced pluripotent stem cell (iPS) generation.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₉H₁₄N₂O₄ Batch Molecular Weight: 334.33 Physical Appearance: Yellow solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM ethanol 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 $45-60^{\circ}C$ 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.

References:

Schirrmacher et al (2006) Synthesis and in vitro evaluation of biotinylated RG108: a high affinity compound for studying binding interactions with human DNA methyltransferases. Bioconjug.Chem. **17** 261. PMID: 16536454.

Stresemann *et al* (2006) Functional diversity of DNA methyltransferase inhibitors in human cancer cell lines. Cancer Res. **66** 2794. PMID: 16510601.

Brueckner *et al* (2005) Epigenetic reactivation of tumor suppressor genes by a novel small-molecule inhibitor of DNA methyltransferase. Cancer Res. **65** 6305. PMID: 16024632.

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