

Certificate of Analysis

Print Date: Jul 29th 2022

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Product Name: SGC 6870 Catalog No.: 7182 Batch No.: 1

CAS Number: 2561471-27-8

IUPAC Name: (R)-4-(5-Bromothiophene-2-carbonyl)-5-(3,5-dimethylphenyl)-7-methyl-1,3,4,5-tetrahydro-2H-benzo[e][1,4]diazepin-

2-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₃H₂₁BrN₂O₂S

Batch Molecular Weight: 469.4

Physical Appearance: White solid

Solubility: DMSO to 100 mM

ethanol to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:

2. ANALYTICAL DATA

HPLC: Shows 99.8% purity
Chiral HPLC: Shows 99.9% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 58.85 4.51 5.97

Found 58.74 4.59 6



Product Information

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Description:

SGC 6870 is a potent and selective protein arginine methyltransferase 6 (PRMT6) allosteric inhibitor (IC $_{50}$ = 77 nM). Exhibits selectivity over all other PRMTs and 23 methyltransferases. In HEK293T cells overexpressing PRMT6, inhibits asymmetric dimethylation of H3R2 (IC $_{50}$ = 0.8 μ M) Negative control SGC 6870N (Cat. No. 7184) also available.

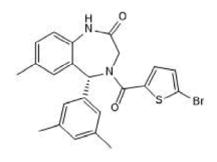
Physical and Chemical Properties:

Batch Molecular Formula: C₂₃H₂₁BrN₂O₂S

Batch Molecular Weight: 469.4 Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

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°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 6870 probe summary on the SGC website.

References:

Shen et al (2021) A first-in-class, highly selective and cell-active allosteric inhibitor of protein arginine methyltransferase 6 (PRMT6) J.Med.Chem. **64** 3697. PMID: 33591753.

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