

Product Name: SGC 6870

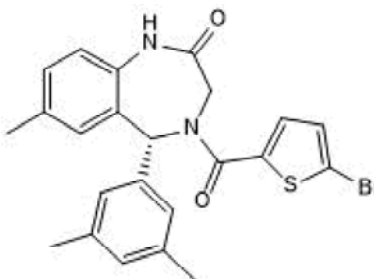
Catalog No.: 7182

Batch No.: 1

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

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

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Description:

Potent and selective protein arginine methyltransferase 6 (PRMT6) 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:

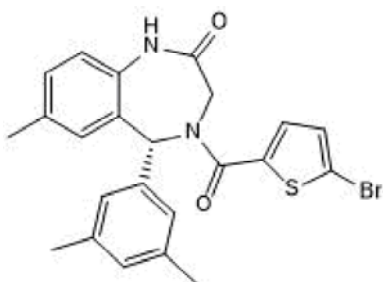
Batch Molecular Formula: $C_{23}H_{21}BrN_2O_2S$

Batch Molecular Weight: 469.4

Physical Appearance: White solid

Minimum Purity: $\geq 98\%$

Batch Molecular Structure:



Storage: Store at $-20^{\circ}C$

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 $45-60^{\circ}C$ 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 $-20^{\circ}C$ 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.

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