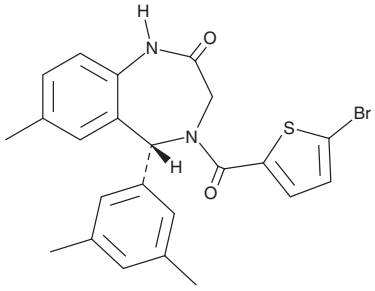
PRODUCT INFORMATION

SGC6870

Item No. 33712

CAS Registry No.:	2561471-27-8
Formal Name:	4-[(5R-bromo-2-thienyl)carbonyl]-5-(3,5-dimethylphenyl)-1,3,4,5-tetrahydro-7-methyl-2H-1,4-benzodiazepin-2-one
MF:	$C_{23}H_{21}BrN_2O_2S$
FW:	469.4
Purity:	≥98%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

SGC6870 is supplied as a solid. A stock solution may be made by dissolving the SGC6870 in the solvent of choice, which should be purged with an inert gas. SGC6870 is soluble in ethanol and DMSO.

Description

SGC6870 is an inhibitor of protein arginine methyltransferase 6 (PRMT6; IC_{50} = 77 nM).[1] It is selective for PRMT6 over a panel of 76 methyltransferases, G protein-coupled receptors (GPCRs), ion channels, receptors, and other enzymes at 1 µM. SGC6870 decreases the levels of dimethylated arginine 2 on histone 3 (H3R2me2) and dimethylated arginine 3 on histone 4 (H4R3me2) in HEK293T cells (IC_{50}s = 0.9 and 0.6 µM, respectively). See the Structural Genomics Consortium (SGC) website for more information.

Reference

1. Shen, Y., Li, F., Szewczyk, M.M., *et al.* A first-in-class, highly selective and cell-active allosteric inhibitor of protein arginine methyltransferase 6. *J. Med. Chem.* **64(7)**, 3697-3706 (2021).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM