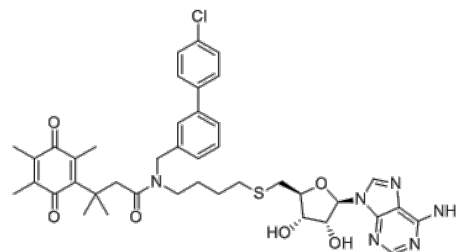


<b>Product Name</b>	: SGC3027
<b>Cat. No.</b>	: PC-72394
<b>CAS No.</b>	: 2624313-13-7
<b>Molecular Formula</b>	: C <sub>41</sub> H <sub>47</sub> ClN <sub>6</sub> O <sub>6</sub> S
<b>Molecular Weight</b>	: 787.373
<b>Target</b>	: Histone Methyltransferase (HMTase)
<b>Solubility</b>	: 10 mM in DMSO



## Biological Activity

SGC3027 (SGC-3027) is the cell permeable prodrug of SGC8158, a potent, selective, and SAM-competitive inhibitor of **PRMT7** with IC<sub>50</sub> of <2.5 nM.

SGC3027 inhibited HSP70 methylation with IC<sub>50</sub> of 2.4  $\mu$ M in C2C12 cells.

SGC3027 selectively inhibited PRMT7 but not PRMT1, 4, 5, 6, 9, and DOT1L.

SGC3027 phenocopies the genetic ablation of Prmt7, PRMT7 inhibition via SGC3027 affects cell survival after heat shock or proteasomal stress, sensitized the WT Prmt7 mouse embryonic fibroblasts (MEFs) to bortezomib.

## References

Szewczyk MM, et al. **Nat Commun.** 2020 May 14;11(1):2396.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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