

# SGI-1027

Catalog No: tcsc2735



## Available Sizes

**Size:** 10mg

**Size:** 50mg



## Specifications

**CAS No:**

1020149-73-8

**Formula:**

$C_{27}H_{23}N_7O$

**Pathway:**

Epigenetics

**Target:**

DNA Methyltransferase

**Purity / Grade:**

>98%

**Solubility:**

DMSO : 27 mg/mL (58.50 mM; Need ultrasonic and warming)

**Observed Molecular Weight:**

461.52

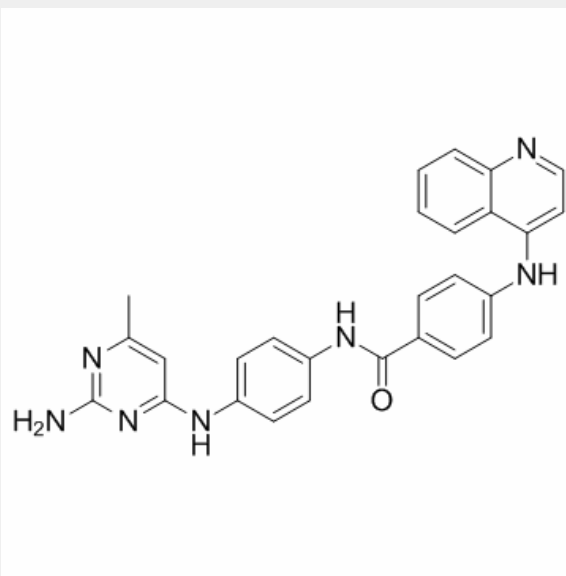
## Product Description

SGI-1027 is a **DNA methyltransferase (DNMT)** inhibitor, with **IC<sub>50</sub>**s of 7.5 μM, 8 μM, and 12.5 μM for DNMT3B, DNMT3A, and DNMT1 with poly(dI-dC) as substrate.

IC50 & Target: IC50: 7.5 μM (DNMT3B), 8 μM (DNMT3A), 12.5 μM (DNMT1)<sup>[1]</sup>

**In Vitro:** SGI-1027 is a DNMT inhibitor, with IC<sub>50</sub>s of 7.5 μM, 8 μM, and 12.5 μM for DNMT3B, DNMT3A, and DNMT1 with poly(dI-dC)

as substrate. SGI-1027 shows an  $IC_{50}$  of 6  $\mu M$  for DNMT1 (hemimethylated DNA). SGI-1027 (1, 2.5, or 5  $\mu M$ ) causes selective degradation of DNMT1 in several human cancer cell lines, but shows little or no cytotoxic effect on rat hepatoma cells, and does not induce apoptosis in rat hepatoma cells<sup>[1]</sup>. SGI-1027 shows an  $EC_{50}$  of 0.9  $\mu M$  for hDNMT3A, and causes cytotoxicity on KG-1 cells, with an  $EC_{50}$  of 4.4  $\mu M$ <sup>[2]</sup>.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!