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Zuschläge

- Mindermengenzuschlag
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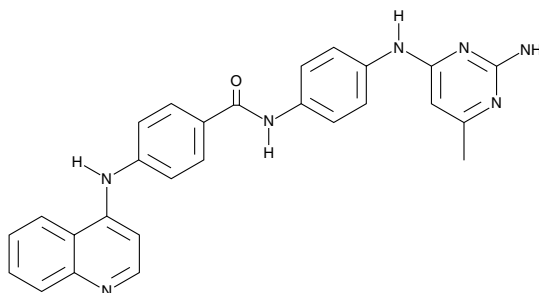
Product Information



SGI-1027

Item No. 11165

CAS Registry No.: 1020149-73-8
Formal Name: N-[4-[(2-amino-6-methyl-4-pyrimidinyl)amino]phenyl]-4-(4-quinolinylamino)-benzamide
Synonym: DNA Methyltransferase Inhibitor II
MF: C₂₇H₂₃N₇O
FW: 461.5
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max}: 350 nm



Laboratory Procedures

For long term storage, we suggest that SGI-1027 be stored as supplied at -20°C. It should be stable for at least two years. SGI-1027 is supplied as a crystalline solid. A stock solution may be made by dissolving the SGI-1027 in the solvent of choice. SGI-1027 is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of SGI-1027 in these solvents is approximately 5 mg/ml.

SGI-1027 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, SGI-1027 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. SGI-1027 has a solubility of approximately 0.2 mg/ml in a 1:4 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

SGI-1027 is an inhibitor of the DNA methyltransferases DNMT1, DNMT3A, and DNMT3B (IC₅₀s = 12.5, 8, and 7.5 μM, respectively, with Poly(dI-dC) as the substrate).¹ It has been shown to cause the degradation of DNMT1 and to reactivate silenced tumor suppressor genes by reducing CpG island hypermethylation.¹

Reference

1. Datta, J., Ghoshal, K., Denny, W.A., *et al.* A new class of quinoline-based DNA hypomethylating agents reactivates tumor suppressor genes by blocking DNA methyltransferase 1 activity and inducing its degradation. *Cancer Res.* **69**(10), 4277-4285 (2009).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/11165

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WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

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