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## Product Datasheet

### **SGI-1027, CAS [[1020149-73-8]]** **FBM-10-5488**

Article Name	SGI-1027, CAS [[1020149-73-8]]
Biozol Catalog Number	FBM-10-5488
Supplier Catalog Number	10-5488
Alternative Catalog Number	FBM-10-5488-5MG,FBM-10-5488-25MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	DNA methyl transferase inhibitor...
Molecular Weight	451.52
Purity	98% by TLC NMR (Conforms)
Form	Off-white solid
CAS Number	[1020149-73-8]
Formula	C27H23N7O
Application Notes	<p>Potent and selective inhibitor of DNA methyl transferase inhibiting DNMT1, DNMT3A and DNMT3B with comparable potency (IC<sub>50</sub>=12.5, 8.0 and 7.5 M respectively).<sup>1</sup> Treatment of various cancer cell lines with SGI-1027 results in selective degradation of DNMT1 (MG-132 sensitive) with minimal effect on DNMT3A and 3B at 2.5-5 M.<sup>1</sup> Prolonged treatment of RKO cells resulted in reexpression of silenced tumor suppressor genes.<sup>1</sup> Synergizes with doxorubicin at growth inhibition in neuroblastoma cell lines.<sup>2</sup> Disrupts the MKK3-MYC complex in cells and inhibits MYC transcriptional activity in colon and breast cancer cells.<sup>3</sup></p>