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## Product Datasheet

**SIG-1027**

**FBM-10-5488**

Artikelname	SGI-1027
Artikelnummer	FBM-10-5488
Hersteller Artikelnummer	10-5488
Alternativnummer	FBM-10-5488-5MG,FBM-10-5488-25MG
Hersteller	Focus Biomolecules
Kategorie	Biochemikalien
Produktbeschreibung	DNA methyl transferase inhibitor...
Molekulargewicht	451.52
Reinheit	98% by TLC NMR (Conforms)
Formulierung	Off-white solid
CAS Nummer	[1020149-73-8]
Formel	C <sub>27</sub> H <sub>23</sub> N <sub>7</sub> O
Anwendungsbeschreibung	<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>