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Product Datasheet

RK-33 FBM-10-4839

Article Name	RK-33
Biozol Catalog Number	FBM-10-4839
Supplier Catalog Number	10-4839
Alternative Catalog Number	FBM-10-4839-5MG,FBM-10-4839-25MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	DDX3 inhibitor...
Molecular Weight	428.44
Purity	98% by HPLC NMR (Conforms)
Form	Yellow solid
CAS Number	[1070773-09-9]
Formula	C23H20N6O3
Application Notes	RK-33 is an inhibitor of the RNA helicase DDX3 - IC50s = 4.4-8.4 μM in high DDX3 expressing lung cancer cell lines A549, H1299, H23, and H460.1,2 Inhibition of DDX3 led to activation of cell death pathways, inhibition of Wnt pathway signaling, and abrogation of non-homologous end-joining (NHEJ) DNA repair. RK-33 was also active in colorectal cancer 3, prostate cancer⁴, and medulloblastoma cancer⁵ cell lines. RK-33 caused radiosensitization in breast cancer through inhibition of mitochondrial translation.⁶ RK-33 facilitates differentiation in human embryonic stem cells (hESC) and decreases pluripotency markers as well as reducing teratoma formation.⁷