

Product Name	: RK-33
Synonyms	: RK-33; RK 33; RK33.
Cat No.	: M17136
CAS Number	: 1070773-09-9
Molecular Formula	: C ₂₃ H ₂₀ N ₆ O ₃
Formula Weight	: 428.44
Chemical Name	: 3,7-dihydro-3,7-bis[(4-methoxyphenyl)methyl]-2H-diimidazo[4,5-d:4',5'-f][1,3]diazepin-2-one
Description	<p>RK-33 is a potent and selective DDX3 inhibitor. RK-33 binds to DDX3 and abrogates its activity. Inhibition of DDX3 by RK-33 caused G1 cell cycle arrest, induced apoptosis, and promoted radiation sensitization in DDX3-overexpressing cells. Overall, inhibition of DDX3 by RK-33 promotes tumor regression, thus providing a compelling argument to develop DDX3 inhibitors for lung cancer therapy. RK-33 radiosensitizes prostate cancer cells by blocking the RNA helicase DDX3.</p>
Pathway	: Others
Target	: Other Targets
Receptor	: DDX3
Solubility	: —
SMILES	: <chem>COC1=CC=C(C=C1)CN2C=NC3=C2N=CN=C4C3=NC(=O)N4CC5=CC=C(C=C5)OC</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

