

Product Name	: AZ-31
Synonyms	: AZ 31;AZ31
Cat No.	: M13254
CAS Number	: 2088113-98-6
Molecular Formula	: C ₂₄ H ₂₈ N ₄ O ₃
Formula Weight	: 420.51
Chemical Name	: (S)-6-(6-(methoxymethyl)pyridin-3-yl)-4-((1-(tetrahydro-2H-pyran-4-yl)ethyl)amino)quinoline-3-carboxamide
Description	: A potent, highly selective and orally active ATM inhibitor with enzyme IC ₅₀ of <1.2 nM, cell IC ₅₀ of 46 nM; displays excellent selectivity against a panel of kinases including ATR, DNAPK, mTOR, PI3K α , PI3K β , PI3K γ , GSK3 β and KDR; reduces upregulation of p21 and blocks G1 arrest in wild-type but not Cdkn1a(p21CIP/WAF1) ^{-/-} mice; shows significant tumor growth reduction in the SW620 xenograft model combined with irinotecan.
Pathway	: Cell Cycle/DNA Damage
Target	: ATM/ATR
Receptor	: ATM/ATR
Solubility	: —
SMILES	: <chem>NC(C1=C(N[C@H](C2CCOCC2)C)C3=CC(C4=CN=C(COC)C=C4)=CC=C3N=C1)=O</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Degorce SL, et al. J Med Chem. 2016 Jul 14;59(13):6281-92. | 2. Vendetti FP, et al. Sci Rep. 2017 Feb 1;7:41892. | 3. Kiesel BF, et al. J Pharm Biomed Anal. 2017 May 10;138:158-165.

