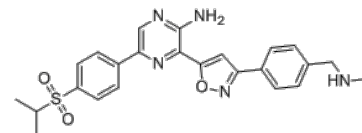


Product Name : Berzosertib
Cat. No. : PC-72164
CAS No. : 1232416-25-9
Molecular Formula : C₂₄H₂₅N₅O₃S
Molecular Weight : 463.556
Target : ATM/ATR
Solubility : 10 mM in DMSO



Biological Activity

Berzosertib (M6620, VX-970, VE-822) is a highly potent, selective **ATR** inhibitor with K_i of 0.17 nM, pH2AX IC₅₀ of 19 nM. M6620 (Berzosertib, VX-970) displays >250-fold selectivity over ATM, and no inhibition against DNA-PK, 278 out of 291 kinases showed <50% inhibition at 400 nM, only Flt4 kinase shows less than 100-fold selectivity.

M6620 (Berzosertib, VX-970) preferentially inhibited ATR-Chk1-CDC25a signaling, abrogated the radiotherapy-induced G2-M checkpoint, delayed resolution of DNA double-strand breaks, and reduced colony formation after radiotherapy in TNBC cells relative to normal-like breast epithelial cells.

M6620 (Berzosertib, VX-970) demonstrated durable regressions in small cell lung cancers with high replication stress when combined with TOP1 inhibitor topotecan.

References

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 Tu X, et al. *Mol Cancer Ther.* 2018 Nov;17(11):2462-2472.
 Thomas A, et al. *J Clin Oncol.* 2018 Jun 1;36(16):1594-1602.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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