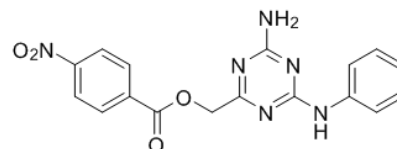


**Product Name** : TZ9  
**Cat. No.** : PC-45500  
**CAS No.** : 1002789-86-7  
**Molecular Formula** : C<sub>17</sub>H<sub>14</sub>N<sub>6</sub>O<sub>4</sub>  
**Molecular Weight** : 366.3309  
**Target** : Ubiquitin-conjugating Enzyme (E2)  
**Solubility** : DMSO: ≥ 40 mg/mL



## Biological Activity

RAD6 SMI#9 (TZ9, RAD6 inhibitor 9) is a specific small molecule inhibitor of ubiquitin-conjugating enzyme (E2) **Rad6**, inhibits Rad6B-ubiquitin thioester formation and subsequent ubiquitin transfer to histone H2A.

RAD6 SMI#9 inhibited MDA-MB-231 cell proliferation with IC<sub>50</sub> of 6 μM.

Rad6 SMI#9 (10 μM) induces MDA-MB-231 G2-M-arrest and decreases β-catenin protein levels, downregulates β-catenin. Gold nanoparticle (GNP)-based SMI#9 inhibited the TNBC growth in BRCA1 wild-type and BRCA1-mutant TNBC xenograft models.

## References

Sanders MA, et al. *J Biol Chem*. 2017 Jun 23;292(25):10347-10363.

Sanders MA, et al. *Mol Cancer Ther*. 2013 Apr;12(4):373-83.

Haynes B, et al. *Nanomedicine*. 2016 Apr;12(3):745-757.

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

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