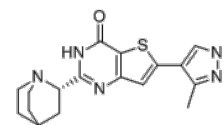


**Product Name** : TAK-931  
**Cat. No.** : PC-63139  
**CAS No.** : 1330782-76-7  
**Molecular Formula** : C<sub>17</sub>H<sub>19</sub>N<sub>5</sub>OS  
**Molecular Weight** : 341.433  
**Target** : Cyclin-dependent Kinase (CDK)  
**Solubility** : 10 mM in DMSO



## Biological Activity

TAK-931 (Simurosertib) is a potent, selective, ATP competitive and orally bioavailable inhibitor of **Cdc7** with IC<sub>50</sub> of <0.3 nM.

TAK-931 prevents the initiation of DNA replication during mitosis, which causes cell cycle arrest and induces apoptosis. TAK-931 demonstrates antiproliferative activity with cancer cell lines and tumor growth inhibition (TGI) in murine ectopic xenograft models.

## References

Charles Locuson, et al. Abstract 5041: Translational pharmacokinetic-pharmacodynamic xenograft model for TAK-931, a small molecule cell division cycle 7 (CDC7) kinase inhibitor. **AACR**.

Kenichi Iwai, et al. Abstract 3073: Potential predictive biomarkers of clinical responses for a novel CDC7-selective inhibitor TAK-931. **AACR**.

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

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