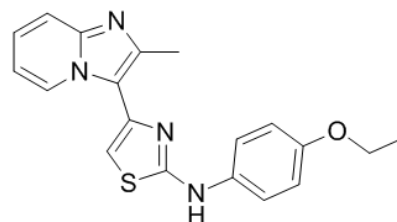


**Product Name** : JK184  
**Cat. No.** : PC-43482  
**CAS No.** : 315703-52-7  
**Molecular Formula** : C<sub>19</sub>H<sub>18</sub>N<sub>4</sub>OS  
**Molecular Weight** :  
**Target** : Gli  
**Solubility** : 10 mM in DMSO



## Biological Activity

JK184 is an antagonist of the hedgehog (Hh) signaling pathway with IC<sub>50</sub> of 30 nM, inhibits glioma (Gli)-dependent transcriptional activity.

JK184 inhibits GLI1 mRNA expression and decreases the number of colonies formed in TN-IBC (SUM149) and TNBC (MDA-MB-231 and SUM159) cell lines.

JK184 significantly down-regulates GLI1 targets that regulate cell cycle (cyclin D and E) and apoptosis (Bcl2).

JK184 is a potent inhibitor of microtubule assembly and that microtubule-depolymerizing agents can either negatively or positively regulate the Gli family of transcription factors, depending on the mechanism by which the pathway is activated.

## References

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Oladapo HO, et al. *Cancer Lett*. 2017 Dec 28;411:136-149.

Lee J, et al. *Chembiochem*. 2007 Nov 5;8(16):1916-9.

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

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