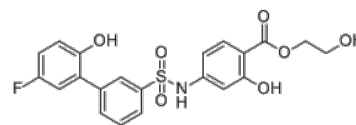


**Product Name** : KAN0438757  
**Cat. No.** : PC-35684  
**CAS No.** : 1451255-59-6  
**Molecular Formula** : C<sub>21</sub>H<sub>18</sub>FNO<sub>7</sub>S  
**Molecular Weight** : 447.433  
**Target** : Other Targets  
**Solubility** : 10 mM in DMSO



### Biological Activity

KAN0438757 (KAN-0438757) is a potent, selective **PFKFB3** inhibitor, the ester prodrug of KAN0438241 with enhanced cell permeability.

KAN0438757 impairs recruitment of ribonucleotide reductase M2 and deoxynucleotide incorporation upon DNA repair, and reduces dNTP levels.

KAN0438757 selectively inhibits proliferation of transformed cells while sparing nontransformed cells.

KAN0438757 demonstrates significant suppression of intracellular F-2,6-P<sub>2</sub> levels with sub  $\mu$ M IC<sub>50</sub> values in cell lines representing pancreatic, gastric, and colon cancer (IC<sub>50</sub>=0.24  $\mu$ M in Mia Paca-2 cells).

### References

Gustafsson NMS, et al. *Nat Commun.* 2018 Sep 24;9(1):3872.

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

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