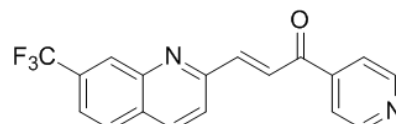


**Product Name** : PFK-158  
**Cat. No.** : PC-42914  
**CAS No.** : 1462249-75-7  
**Molecular Formula** : C<sub>18</sub>H<sub>11</sub>F<sub>3</sub>N<sub>2</sub>O  
**Molecular Weight** : 328.288  
**Target** : Other Targets  
**Solubility** : DMSO: ≥ 30 mg/mL



## Biological Activity

PFK-158 is the first potent, selective and competitive small molecule inhibitor of **PFKFB3** with IC<sub>50</sub> of 137 nM, inhibits glycolysis, induces apoptosis and autophagy.

PFK-158 reduces glucose uptake, ATP production, lactate release, and induces apoptosis and autophagy in cancer cells.

PFK-158 has synergistic anti-proliferative effects in vitro when combined with Cisplatin in C13 and HeyA8MDR cells.

PFK-158 shows a dose-dependent downregulation of p62/SQSTM1 and upregulation of LC3BII, two markers of autophagy induction, in both C13 and HeyA8MDR cells.

PFK-158 combined with CBPt treatment leads to significantly enhanced antitumor activity in a gynecologic cancer mouse model.

PFK-158 is more potent than 3PO with improved PK properties.

## References

Sucheta Telang, et al. *Cancer Metab.* 2014; 2(Suppl 1): P14.

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

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