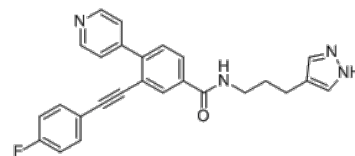


**Product Name** : OT-82  
**Cat. No.** : PC-38153  
**CAS No.** : 1800487-55-1  
**Molecular Formula** : C<sub>26</sub>H<sub>21</sub>FN<sub>4</sub>O  
**Molecular Weight** : 424.479  
**Target** : NAMPT  
**Solubility** : 10 mM in DMSO



## Biological Activity

OT-82 (NAMPT inhibitor OT-82) is a novel selective and orally active inhibitor of nicotinamide phosphoribosyltransferase (**NAMPT**), reduces the viability of leukemia cells with IC<sub>50</sub> of 0.2-4 nM.

Similar to the leukemia cell lines, the PDX cells were highly sensitive to OT-82 treatment with IC<sub>50</sub> values ranging from 0.4 to 3.6 nM.

OT-82 exerts its antileukemic action by reducing cellular NAD<sup>+</sup> and inducing apoptosis.

OT-82 induces significant leukemia regression in vivo in a large panel of ALL PDXs derived from high-risk and poor outcome pediatric patients.

## References

Teicher B, et al. *Leukemia*. 2020 Jun;34(6):1524-1539.

Korotchkina L, et al. *Leukemia*. 2020 Jul;34(7):1828-1839.

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

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