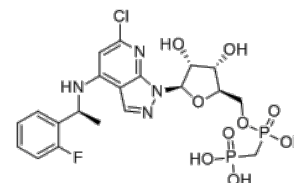


**Product Name** : AB680  
**Cat. No.** : PC-35840  
**CAS No.** : 2105904-82-1  
**Molecular Formula** : C<sub>20</sub>H<sub>24</sub>ClFN<sub>4</sub>O<sub>9</sub>P<sub>2</sub>  
**Molecular Weight** : 580.83  
**Target** : Other Targets  
**Solubility** : DMSO: 200 mg/mL



1. Piovesan D, et al. *Mol Cancer Ther.* 2022 Apr 11:molcanther.0802.2021.
2. Lawson KV, et al. *J Med Chem.* 2020 Oct

## Biological Activity

AB680 (Quemliclustat) is a highly potent, selective, reversible inhibitor of **CD73** with  $K_i/IC_{50}$  of 4.9/70 pM (hCD73). AB680 displays > 10,000-fold selectivity against related ecto-nucleotidases (CD39, NTPDases 2/3/8) and a large panel of unrelated enzymes, receptors, and ion channels. AB680 completely inhibits CD73 enzymatic activity on CD8+ T cell, robustly restores proliferation of human CD4+ T-cells and reverses AMP-mediated inhibition of IFN- $\gamma$  and IL-2 production, limits the inhibitory effect of AMP on CD4+ T cell proliferation with  $IC_{50}$  of 4.5 nM. AB680 also potently restored CD25 expression on human CD8+ T cells.

## References

22;63(20):11448-11468.

