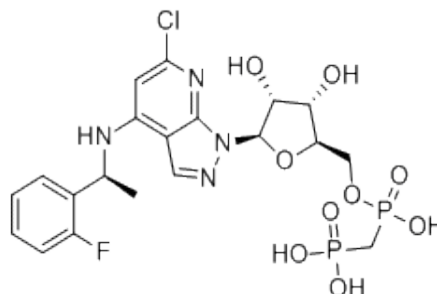


Data Sheet

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Global Supplier of Chemical Probes, Inhibitors & Agonists

Product Name :AB680
Cat.No. :URK-V1553
CAS No. :2105904-82-1
Molecular Formula :C₂₀H₂₄ClFN₄O₉P₂
Molecular Weight :580.83
Target :
Solubility :



Biological Activity

AB680 (Quemliclustat) is a highly potent, selective, reversible inhibitor of CD73 with Ki/IC₅₀ 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-γ and IL-2 production, limits the inhibitory effect of AMP on CD4+ T cell proliferation with IC₅₀ of 4.5 nM. AB680 also potently restored CD25 expression on human CD8+ T cells.

References

1. Piovesan D, et al. Mol Cancer Ther. 2022 Apr 11:molcanther.0802.2021.
2. Lawson KV, et al. J Med Chem. 2020 Oct 22;63(20):11448-11468.

Note: All products of Ureiko are only used for scientific research or drug certificate declaration, we do not provide products and services for any personal use!

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

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