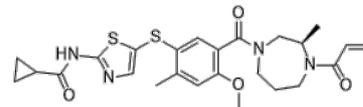


Product Name : Soquelitinib
Cat. No. : PC-26224
CAS No. : 2226636-04-8
Molecular Formula : C₂₅H₃₀N₄O₄S₂
Molecular Weight : 514.66
Target : ITK
Solubility : 10 mM in DMSO



Biological Activity

Soquelitinib (CPI-818) is a selective, covalent, orally bioavailable inhibitor of ITK kinase (Interleukin-2-inducible T cell kinase) with K_d of 6.5 nM, >80-fold selective over other TEC kinase family members, binds covalently to cysteine 442 of ITK and blocks its function.

Soquelitinib displays >100-fold selectivity compared to binding to resting lymphocyte kinase (RLK).

Soquelitinib inhibits TCR signaling downstream of ITK and blocks IL-2 production, suppresses IL-2 secretion in Jurkat cells in response to TCR stimulation with a mean IC₅₀ of 136 nM.

Soquelitinib suppresses Th2 associated cytokines and induces Th1 skewing in CD4 T cells.

Soquelitinib inhibits tumor growth and enhances cytolytic capacity of tumor infiltrating T cells.

Soquelitinib enhances anti-PD1 and anti-CTLA4 efficacy in the CT26 tumor model.

Soquelitinib inhibits T cell exhaustion process in vitro.

References

Hsu L Y, et al. bioRxiv, 2023: 2023.10. 27.564296.

Hsu L Y, et al. bioRxiv, 2023: 2023.07. 05.547822.

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

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