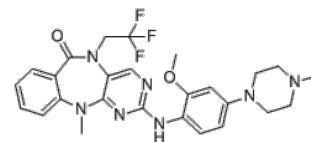


Product Name : DCLK1-IN-1
Cat. No. : PC-38227
CAS No. : 2222635-15-4
Molecular Formula : C₂₆H₂₈F₃N₇O₂
Molecular Weight : 527.552
Target : --所有内容--
Solubility : 10 mM in DMSO



Biological Activity

DCLK1-IN-1 is the first potent, selective inhibitor of the **DCLK1** and **DCLK2** kinases with IC₅₀ of 9.5 nM and 31 nM in binding assays, respectively.

DCLK1-IN-1 exclusively inhibited DCLK1 and DCLK2 across a panel of 489 human kinases, significantly inhibited DCLK1, and weakly inhibited ERK5, in PATU-8988T cell lysates and live cells, did not inhibit any kinases under these conditions.

DCLK1-IN-1 displays pronounced on-target DCLK1 activity in vitro, and is suitable probe for in vivo evaluation.

Proteins associated with cell motility, including HN1, ZIP8 and FYN, were significantly downregulated after DCLK1-IN-1 treatment in the organoid cultures.

References

Fleur M Ferguson, et al. *Nat Chem Biol*. 2020 Jun;16(6):635-643.

Fleur M Ferguson, et al. *J Med Chem*. 2020 Jul 23;63(14):7817-7826.

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

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