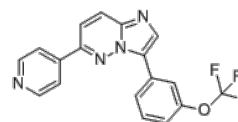


Product Name : LMTK3 inhibitor C28
Cat. No. : PC-38206
CAS No. : 2764850-23-7
Molecular Formula : C₁₈H₁₁F₃N₄O
Molecular Weight : 356.308
Target : LIM Kinase (LIMK)
Solubility : 10 mM in DMSO



Biological Activity

LMTK3 inhibitor C28 is a potent, ATP-competitive small-molecule inhibitor of lemur tyrosine kinase 3 (**LMTK3**) with IC₅₀ of 67 nM.

LMTK3 inhibitor C28 displays high selectivity for LMTK3, only 18 of 140 kinases was reduced >50% in the presence of 1 μM, 4 kinases (CLK, 5 nM; DYRK1α, 6 nM; HIPK2, 48 nM; and IRAK4, 41 nM) have IC₅₀ values of <50 nM.

LMTK3 inhibitor C28 promotes proteasome-mediated degradation of LMTK3, an HSP90 client protein.

LMTK3 inhibitor C28 exhibits potent anticancer activity in different human cancer cell lines (BC cells IC₅₀=6.5-8.4 μM).

LMTK3 inhibitor C28 inhibits tumor growth in orthotopic and transgenic mouse models of BC.

References

Angeliki Ditsiou, et al. *Sci Adv.* 2020 Nov 13;6(46):eabc3099.

Chiara Cilibrasi, et al. *Mol Cancer.* 2021 Mar 17;20(1):53.

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

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