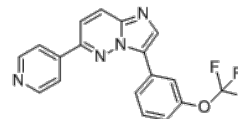


**Product Name** : LMTK3 inhibitor C28  
**Cat. No.** : PC-38206  
**CAS No.** : 2764850-23-7  
**Molecular Formula** : C<sub>18</sub>H<sub>11</sub>F<sub>3</sub>N<sub>4</sub>O  
**Molecular Weight** : 356.308  
**Target** : LIM Kinase (LIMK)  
**Solubility** : 10 mM in DMSO



### Biological Activity

LMTK3 inhibitor C28 is a potent, ATP-competitive small-molecule inhibitor of lemur tyrosine kinase 3 (**LMTK3**) with IC<sub>50</sub> 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 IC<sub>50</sub> 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 IC<sub>50</sub>=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!**

E-mail: tech@probechem.com