

Data Sheet

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Global Supplier of Chemical Probes, Inhibitors & Agonists.

 Product Name
 :
 XST-14

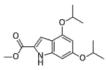
 Cat. No.
 :
 PC-25239

 CAS No.
 :
 2607143-50-8

 Molecular Formula
 :
 C₁₆H₂₁NO₄

 Molecular Weight
 :
 291.35

Solubility : 10 mM in DMSO



Biological Activity

Target

XST-14 is a potent, highly selective inhibitor for Unc-51-Like Kinase 1 (ULK1) with IC50 of 13.6 nM and SPR KD of 30.75 nM. XST-14 (5 μ M) only inhibits 6 out of 403 kinases by at least 75%, including ULK1 (MAP2K1/MEK1, MAPK14/p38 alpha, TGFBR2, ACVR1/ALK2, ULK2 and CAMK2A IC50 of 721.8, 283.9, 809.3, 183.8, 70.9, and 66.3 nM, respectively).

XST-14 inhibits autophagy by reducing ULK1 kinase activity, strongly inhibits the conversion of LC3-I to LC3-II.

XST-14 inhibited the Ser249 phosphorylation of PIK3C3 and Ser15 phosphorylation of BECN1.

XST-14 acts synergistically with sorafenib to suppress HCC in vitro.

XST-14 acts synergistically with sorafenib to suppress HCC tumor growth.

References

Xue ST, et al. Autophagy. 2020 Oct;16(10):1823-1837.

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

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