Product Datasheet

STK16-IN-1

Catalog No. **BP-03653** · CAS **1223001-53-3** · Form **free base** · Physical state **solid** · Color **White to off-white** · Version **1.0** · Revision **2026-11-13**

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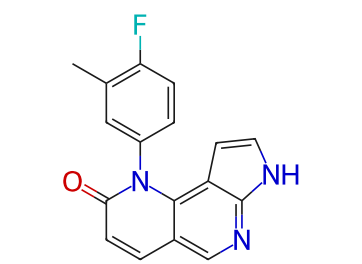
Molecular formula	$C_{17}H_{12}FN_3O$
Molecular weight	**293.2951**

STRUCTURE



DESCRIPTION

STK16-IN-1 is a STK16 kinase inhibitor with an IC50 of 295 nM.

BIOLOGICAL ACTIVITY

In Vitro

STK16-IN-1, which exhibits potent inhibitory activity against STK16 kinase (IC50=0.295 μM) with excellent selective across the kinome as assessed using the KinomeScanTM profiling assay. STK16-IN-1 inhibits mTOR kinase with an IC50 of 5.56 μM. In MCF-7 cells, treatment with STK16-IN-1 results in a reduction in cell number and accumulation of binucleated cells, which can be recapitulated by RNAi knockdown of STK16. Co-treatment of STK16-IN-1 with chemotherapeutics such as cisplatin, doxorubicin, colchicine and paclitaxel results in a slight potentiation of the anti-proliferative effects of the chemotherapeutics. STK16-IN-1 provides a useful tool compound for further elucidating the biological functions of STK16)[1].

SOLUBILITY

Soluble in DMSO

REFERENCES

[1]. Liu F, et al. Discovery of a Highly Selective STK16 Kinase Inhibitor. ACS Chem Biol. 2016 Jun 17;11(6):1537-43.