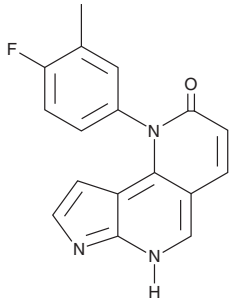
PRODUCT INFORMATION

STK16-IN-1

Item No. 27370



CAS Registry No.:	1223001-53-3
Formal Name:	1-(4-fluoro-3-methylphenyl)-1,7-dihydro-2H-pyrrolo[2,3-h]-1,6-naphthyridin-2-one
MF:	$C_{17}H_{12}FN_3O$
FW:	293.3
Purity:	≥98%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

STK16-IN-1 is supplied as a solid. A stock solution may be made by dissolving the STK16-IN-1 in the solvent of choice, which should be purged with an inert gas. STK16-IN-1 is soluble in the organic solvent DMSO.

Description

STK16-IN-1 is an inhibitor of the serine/threonine kinase STK16 (IC_{50} = 295 nM).[1] It is selective for STK16 over mTOR, PI3Kδ, and PI3Kγ in an enzyme assay (IC_{50}s = 5,560, 856, and 867 nM, respectively) and over 440 additional kinases in a KinomeScan profiling assay. It decreases the growth of MCF-7 cells (GI_{50} = ~10 µM) and increases the number of binucleated cells. STK16-IN-1 (2.5-5 µM) potentiates the antiproliferative effects of colchicine (Item No. 9000760), paclitaxel (Item No. 10461), doxorubicin (Item No. 15007), and cisplatin (Item No. 13119) in MCF-7 cells.

Reference

1. Liu, F., Wang, J., Yang, X., *et al.* Discovery of a highly selective STK16 kinase inhibitor. *ACS Chem. Biol.* **11(6)**, 1537-1543 (2016).

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