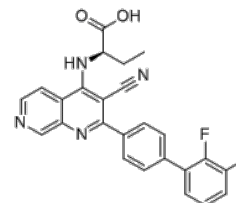


Product Name : BAY-091
Cat. No. : PC-72463
CAS No. : 2922280-34-8
Molecular Formula : C₂₆H₂₁FN₄O₂
Molecular Weight : 440.478
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

BAY-091 (BAY091) is a potent and highly selective inhibitor of **PIP4K2A** with IC₅₀ of 16 nM in the high ATP (2 mM) HTRF assay.

BAY-091 showed excellent kinase selectivity profile a commercial kinase panel (Millipore, 373 kinases) at 1 uM, none of the potential off-target kinases was inhibited >60%.

BAY-091 displayed drug-like physicochemical properties with favorable lipophilicity (log D), TPSA, and aqueous solubility and exhibited high metabolic stability in human and rat liver microsomes as well as in rat hepatocytes.

BAY-091 did not increase the levels of p-AKT (Ser473 and Thr308) in THP-1 cells up to a concentration of 50 uM, also was unable to induce changes in the p-PP2A (Tyr307) protein levels.

BAY-091 is a valuable chemical probe to study PIP4K2A signaling and its involvement in pathophysiological conditions such as cancer.

References

Lars Wortmann, et al. *J Med Chem.* 2021 Nov 11;64(21):15883-15911.

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

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