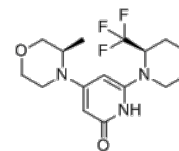


Product Name : SB02024
Cat. No. : PC-35505
CAS No. : 2126737-28-6
Molecular Formula : C₁₆H₂₂F₃N₃O₂
Molecular Weight : 345.37
Target : PI3K
Solubility : 10 mM in DMSO



Biological Activity

SB02024 (SB 02024) is a novel highly potent, selective, ATP competitive, orally active inhibitor of vacuolar protein sorting 34 (**Vps34**) with K_d of 1 nM, >1000 times selective towards other PI3K isoenzymes.

SB02024 is also highly selective at 1 μM in the DiscoverX ScanMax panel of 468 kinases.

SB02024 reduces the number of GFP-2xFYVE puncta with IC₅₀ of 14 nM, induces a dose-dependent increase in levels of NCOA4 and p62.

SB02024 blocks autophagy in vitro and reduces xenograft growth of two breast cancer cell lines, MDA-MB-231 and MCF-7.

SB02024 also significantly potentiates cytotoxicity of Sunitinib and Erlotinib in MCF-7 and MDA-MB-231 in vitro.

References

Dyczynski M, et al. *Cancer Lett.* 2018 Jul 25. pii: S0304-3835(18)30486-5.

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

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