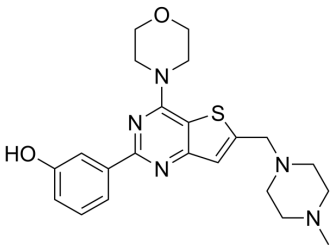
PI-540

Cat. No.:	HY-10116
CAS No.:	885616-78-4
Molecular Formula:	$C_{22}H_{27}N_5O_2S$
Molecular Weight:	425.55
Target:	PI3K; mTOR
Pathway:	PI3K/Akt/mTOR
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	PI-540 is a bicyclic thienopyrimidine derivative and an orally active PI3K inhibitor. PI-540 has anti-cancer cell proliferation properties and high tissue distribution. PI-540 can inhibit different isoforms of PI3K, with IC_{50}s of 10 nM (P110α), 3510 nM (P110β), 410 nM (P110δ), and 33110 nM (P110γ). PI-540 also inhibits mTOR (IC_{50}: 61 nM) and DNA-PK (IC_{50}: 525 nM)[1].
IC_{50} & Target	IC50: 10 nM (P110α)，3510 nM (P110β)，410 nM (P110δ)，33110 nM (P110γ)[1]br/IC50: 61 nM (mTOR), 525 nM (DNA-PK)[1]

REFERENCES

[1]. Raynaud FI, et al. Biological properties of potent inhibitors of class I phosphatidylinositide 3-kinases: from PI-103 through PI-540, PI-620 to the oral agent GDC-0941. Mol Cancer Ther. 2009 Jul;8(7):1725-38.

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