## PI3K/mTOR Inhibitor-8

Cat. No.: HY-146200 CAS No.: 2492376-85-7 Molecular Formula:  $C_{23}H_{22}N_8O_4S$ 

Molecular Weight: 506.54

Target: PI3K; mTOR Pathway: PI3K/Akt/mTOR

Storage: Please store the product under the recommended conditions in the Certificate of

**Product** Data Sheet

## **BIOLOGICAL ACTIVITY**

Description	PI3K/mTOR Inhibitor-8 (Compound 18b) is a PI3K and mTOR dual inhibitor with IC $_{50}$ values of 0.46 nM and 12 nM against PI3K $\alpha$ and mTOR, respectively. PI3K/mTOR Inhibitor-8 induces HCT-116 cells apoptosis and arrests cell cycle at the G1/S phase <sup>[1]</sup> .	
IC <sub>50</sub> & Target	PI3Kα 0.46 nM (IC <sub>50</sub> )	mTOR 12 nM (IC <sub>50</sub> )
In Vitro	PI3K/mTOR Inhibitor-8 (Compound 18b) shows anti-proliferation activities with IC $_{50}$ values of 1.95 $\pm$ 0.02, 2.02 $\pm$ 0.01, 1.62 $\pm$ 0.01 and 1.55 $\pm$ 0.01 $\mu$ M against PC-3, HCT-116, A549 and MDA-MB-231 cells, respectively <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

## **REFERENCES**

[1]. Han Y, et al. Design, synthesis and biological evaluation of thieno[3,2-d]pyrimidine derivatives containing aroyl hydrazone or aryl hydrazide moieties for PI3K and mTOR dual inhibition. Bioorg Chem. 2020 Nov;104:104197.

Caution: Product has not been fully validated for medical applications. For research use only.

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