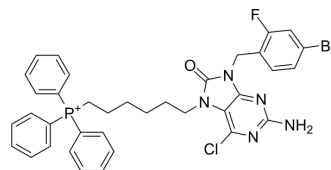


SMTIN-T140

Cat. No.:	HY-147696
Molecular Formula:	C ₃₆ H ₃₄ BrClFN ₅ OP ⁺
Molecular Weight:	718.02
Target:	HSP; AMPK; Reactive Oxygen Species
Pathway:	Cell Cycle/DNA Damage; Metabolic Enzyme/Protease; Epigenetics; PI3K/Akt/mTOR; Immunology/Inflammation; NF-κB
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	SMTIN-T140 (compound 6a) is a potent TRAP1 (tumor-necrosis-factor-receptor associated protein 1) inhibitor, with an IC ₅₀ of 1.646 μM. SMTIN-T140 shows anticancer activity. SMTIN-T140 leads to mitochondrial dysfunction, increases mitochondrial ROS production and activates AMPK. SMTIN-T140 potently suppressed tumor growth without any noticeable in vivo toxicity in a mouse model xenografted with PC3 prostate cancer cells ^[1] .
IC₅₀ & Target	IC ₅₀ : 1.646 ± 0.024 μM (TRAP1) ^[1]

REFERENCES

[1]. Yang S, et al. Triphenylphosphonium conjugation to a TRAP1 inhibitor, 2-amino-6-chloro-7,9-dihydro-8H-purin-8-one increases antiproliferative activity. *Bioorg Chem.* 2022 May 20;126:105856.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA