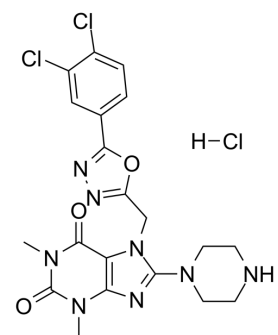


TH5427 hydrochloride

Cat. No.:	HY-125209A
CAS No.:	2253744-57-7
Molecular Formula:	C ₂₀ H ₂₁ Cl ₃ N ₈ O ₃
Molecular Weight:	527.79
Target:	DNA/RNA Synthesis
Pathway:	Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	TH5427 hydrochloride is a potent, selective NUDT5 inhibitor (IC ₅₀ =29 nM). TH5427 hydrochloride shows an apparent 690-fold selectivity for NUDT5 over MTH1. TH5427 hydrochloride blocks progestin-dependent, PAR-derived nuclear ATP synthesis and subsequent chromatin remodeling, gene regulation and proliferation in breast cancer cells ^[1] .
In Vitro	TH5427 hydrochloride inhibits progestin-dependent nuclear ATP synthesis in breast cancer cells. TH5427 hydrochloride significantly disrupted EGFR and MMTV-luc expression following progestin stimulation. TH5427 hydrochloride abrogates the progestin-dependent proliferation response in T47D ^{WT} cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Page BDG, et al. Targeted NUDT5 inhibitors block hormone signaling in breast cancer cells [published correction appears in Nat Commun. 2019 Nov 1;10(1):5050]. Nat Commun. 2018;9(1):250. Published 2018 Jan 17.

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