

## TH588 hydrochloride

Cat. No.: HY-12814A

CAS No.: 1640282-30-9 Molecular Formula:  $C_{13}H_{13}Cl_3N_4$ 

Molecular Weight: 331.63

DNA/RNA Synthesis Target: Pathway: Cell Cycle/DNA Damage

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

Analysis.

H-CI

**Product** Data Sheet

## **BIOLOGICAL ACTIVITY**

Description TH588 hydrochloride is first-in-class nudix hydrolase family inhibitor that potently and selectively engage and inhibit the

MTH1 ( $IC_{50} = 5 \text{ nM}$ ).

In Vitro  $TH588~(2-10 \mu M; 7-10~days)~selectively~and~effectively~kills~U2OS,~HeLa,~MDA-MB-231,~MCF-7,~SW480,~and~SW620~cells~with~ICCCC.$ 50s of 1.38, 0.83, 1.03, 1.08, 1.72, 0.8 μM <sup>[1]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Viability Assay<sup>[1]</sup>

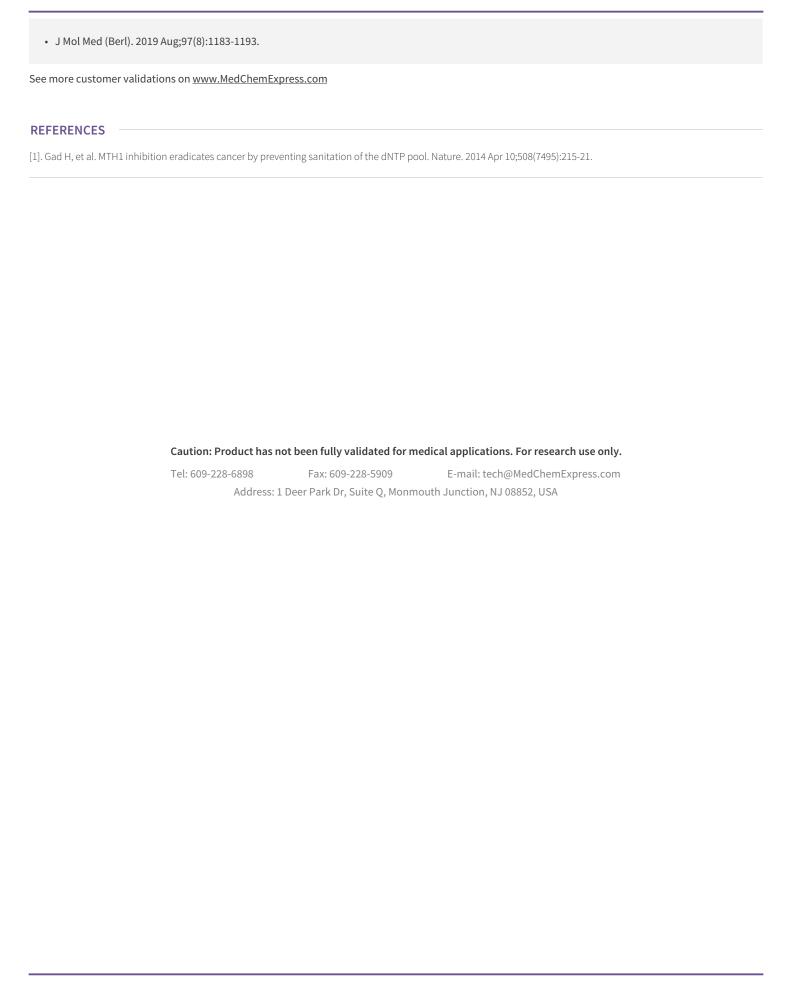
Cell Line:	U2OS, HeLa, MDA-MB-231, MCF-7, SW480, SW620, VH10, HDFn cells
Concentration:	2, 4, 6, 8, 10 μΜ
Incubation Time:	7–10 days
Result:	Selectively and effectively killed U2OS, HeLa, MDA-MB-231, MCF-7, SW480, and SW620 cells with IC $_{50}$ s of 1.38, 0.83, 1.03, 1.08, 1.72, 0.8 $\mu$ M, respectively, but was less toxic to several primary or immortalized cells.

In Vivo

TH588 (30 mg/kg; s.c.; once daily for 35 days) reduces tumour growth in SW480 xenograft cancer model<sup>[1]</sup>. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	5-6 weeks female SCID mice (SW480 xenograft cancer model) <sup>[1]</sup>
Dosage:	30 mg/kg
Administration:	Subcutaneous injection (s.c.); once daily for 35 days
Result:	Reduced tumour growth in SW480 xenograft cancer model.

## **CUSTOMER VALIDATION**



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