# TH1217

Cat. No.:	HY-135909				
CAS No.:	1862212-48-3				
Molecular Formula:	C <sub>20</sub> H <sub>17</sub> BCl <sub>2</sub> N <sub>4</sub> O <sub>6</sub>				
Molecular Weight:	491.09				
Target:	SARS-CoV				
Pathway:	Anti-infection				
Storage:	Powder	-20°C	3 years		
	In solvent	-80°C	6 months		
		-20°C	1 month		

## SOLVENT & SOLUBILITY

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.0363 mL	10.1814 mL	20.3629 ml
	5 mM	0.4073 mL	2.0363 mL	4.0726 mL
	10 mM	0.2036 mL	1.0181 mL	2.0363 mL

DIOLOGICALACITY	
Description	TH1217 (ZINC1775962367) is a potent and selective dCTPase pyrophosphatase 1 (dCTPase) inhibitor, with an IC <sub>50</sub> of 47 nM. TH1217 enhances the cytotoxic effect of cytidine analogues in leukemia cells. TH1217 also could modulate SARS-Cov-2 interactors, so it shows activity of against COVID-19 <sup>[1][2]</sup> .
IC <sub>50</sub> & Target	IC50: 47 nM (dCTPase) <sup>[1]</sup>
In Vitro	TH1217 (compound 30) inhibits dCTPase and enhances aqueous solubility (>100 μM) and improves plasma stability in vitro(t 4h=86%) <sup>[1]</sup> . TH1217 presents suitable mouse microsomal half-lives (109 minutes) <sup>[1]</sup> . TH1217 displays well cell permeability (8.66×10 <sup>-6</sup> /1.30×10 <sup>-3</sup> cm/s) and CYP inhibition <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## CUSTOMER VALIDATION

CI

CI

-0´<sup>N</sup><sup>+</sup>

Ο

O

O

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• Nucleic Acids Res. 2021 Jan 8;49(D1):D1113-D1121.

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#### REFERENCES

[1]. Llona-Minguez S, et, al. Discovery of the First Potent and Selective Inhibitors of Human dCTP Pyrophosphatase 1. Med Chem. 2016 Feb 11; 59(3): 1140-1148.

[2]. Gordon DE, et, al. A SARS-CoV-2-Human Protein-Protein Interaction Map Reveals Drug Targets and Potential Drug-Repurposing. bioRxiv. 2020 Mar 22; 2020.03.22.002386.

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

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