## T-2513

Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway: Storage:	HY-125930 288247-87-0 C <sub>25</sub> H <sub>27</sub> N <sub>3</sub> O <sub>5</sub> 449.5 Topoisomerase; DNA/RNA Synthesis Cell Cycle/DNA Damage Please store the product under the recommended conditions in the Certificate of Analysis.	$H_2N$
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BIOLOGICAL ACTIVITY				
Description	T-2513 is a selective topoisomerase I inhibitor. T-2513 binds covalently to and stabilizes the topoisomerase I-DNA complex and inhibits DNA replication and RNA synthesis, ultimately leading to cell death <sup>[1]</sup> .			
IC <sub>50</sub> & Target	Topoisomerase I			
In Vitro	SN-38 is the metabolite of T-2513 <sup>[1]</sup> .         T-2513 has a broad cytotoxicity against a range of human tumor cell lines <sup>[2]</sup> .         MCE has not independently confirmed the accuracy of these methods. They are for reference only.         Cell Cytotoxicity Assay <sup>[2]</sup> Cell Line:       WiDr, HT-29, SK-BR-3, MKN-1, SK-LU-1, LX-1, KB, and HeLaS3 cells         Concentration:       15.1-111.5 ng/mL         Incubation Time:       24 hours         Result:       Exhibited cytotoxicity against a panel of human tumor cell lines with GI <sub>50</sub> s of 32.1, 97.6, 38.6, 15.6, 111.5, 15.1, 34.0, and 50.9 ng/mL for WiDr, HT-29, SK-BR-3, MKN-1, SK-LU-1, LX-1, KB, and HeLaS3 cells, respectively.			
In Vivo	T-2513 (1-100 mg/kg) shows Antitumor Activity against Walker-256 carcinoma <sup>[2]</sup> .         MCE has not independently confirmed the accuracy of these methods. They are for reference only.         Animal Model:       Rats bearing Walker-256 carcinoma <sup>[2]</sup> Dosage:       1, 10, and 100 mg/kg         Administration:       The ED <sub>50</sub> was 23 mg/kg.			

## REFERENCES

## Product Data Sheet



[1]. Stephan A Veltkamp, et al. Clinical and pharmacologic study of the novel prodrug delimotecan (MEN 4901/T-0128) in patients with solid tumors. Clin Cancer Res. 2008 Nov 15;14(22):7535-44.

[2]. S Okuno, et al. Complete regression of xenografted human carcinomas by camptothecin analogue-carboxymethyl dextran conjugate (T-0128). Cancer Res. 2000 Jun 1;60(11):2988-95.

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

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