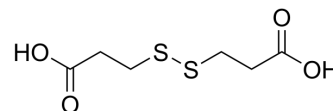


## Dithiodipropionic acid

<b>Cat. No.:</b>	HY-W014395		
<b>CAS No.:</b>	1119-62-6		
<b>Molecular Formula:</b>	C <sub>6</sub> H <sub>10</sub> O <sub>4</sub> S <sub>2</sub>		
<b>Molecular Weight:</b>	210.26		
<b>Target:</b>	Reactive Oxygen Species; Apoptosis		
<b>Pathway:</b>	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB; Apoptosis		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### BIOLOGICAL ACTIVITY

<b>Description</b>	Dithiodipropionic acid can interact with <a href="#">CPUL1</a> (HY-151802, a TrxR inhibitor) to form nanoaggregates (CPUL1-DA NAs). CPUL1-DA NAs generates more abundant ROS to induce cell apoptosis than that of free CPUL1, and improves antitumor efficacy against HUH7 cancer cells <sup>[1]</sup> .
<b>In Vitro</b>	CPUL1-DA NAs (molar ratio was 1:2) inhibits HUH7 hepatoma cell viability with an IC <sub>50</sub> value of 4.3 μM, and has weak cytotoxicity against normal L02 cells <sup>[1]</sup> . CPUL1-DA NAs (2.5-10 μM, 6 h) can be more effectively enriched in HUH7 cells mitochondria and displays faster cellular uptake ability to deliver CPUL1 into cells than that of free CPUL1 <sup>[1]</sup> . CPUL1-DA NAs (2.5-10 μM, 12 h) results in the accumulation of superoxides and mitochondrial membrane damage in HUH7 cells <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Jing Liu, et al. Nanoaggregates of Disulfide-Decorated TrxR Inhibitor Promote Cellular Uptake, Selective Targeting, and Antitumor Efficacy. Langmuir.

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

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