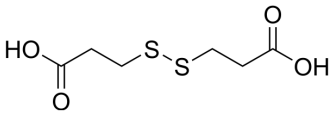
Dithiodipropionic acid

Cat. No.:	HY-W014395
CAS No.:	1119-62-6
Molecular Formula:	$C_6H_{10}O_4S_2$
Molecular Weight:	210.26
Target:	Reactive Oxygen Species; Apoptosis
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB; Apoptosis
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



BIOLOGICAL ACTIVITY

Description	Dithiodipropionic acid can interact with CPUL1 (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[1].
In Vitro	CPUL1-DA NAs (molar ratio was 1:2) inhibits HUH7 hepatoma cell viability with an IC_{50} value of 4.3 μM, and has weak cytotoxicity against normal L02 cells[1]. 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[1]. CPUL1-DA NAs (2.5-10 μM, 12 h) results in the accumulation of superoxides and mitochondrial membrane damage in HUH7 cells[1]. 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.

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