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Diagnostik & molekulare Diagnostik



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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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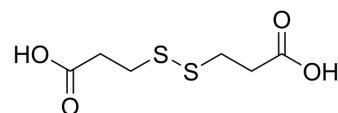
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Dithiodipropionic acid

Cat. No.:	HY-W014395		
CAS No.:	1119-62-6		
Molecular Formula:	C ₆ H ₁₀ O ₄ S 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



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (475.60 mM)

* "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		4.7560 mL	23.7801 mL	47.5602 mL
	5 mM		0.9512 mL	4.7560 mL	9.5120 mL
	10 mM		0.4756 mL	2.3780 mL	4.7560 mL

Please refer to the solubility information to select the appropriate solvent.

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 IC₅₀ 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

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

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