## L-Cystine dihydrochloride

MedChemExpress

Cat. No.:	HY-W009203	
CAS No.:	30925-07-6	
Molecular Formula:	C <sub>6</sub> H <sub>14</sub> Cl <sub>2</sub> N <sub>2</sub> O <sub>4</sub> S <sub>2</sub>	O II
Molecular Weight:	313.22	НО
Target:	Others	$\bar{N}H_2$
Pathway:	Others	HC
Storage:	4°C, stored under nitrogen	
	* In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)	

## SOLVENT & SOLUBILITY

	Preparing Stock Solutions	Mass Solvent Concentration	1 mg	5 mg	10 mg
		1 mM	3.1926 mL	15.9632 mL	31.9264 mL
		5 mM	0.6385 mL	3.1926 mL	6.3853 mL
		10 mM	0.3193 mL	1.5963 mL	3.1926 mL
	Please refer to the so	lubility information to select the app	propriate solvent.	i	
n Vivo		one by one: 10% DMSO >> 90% cor ng/mL (3.99 mM); Clear solution	n oil		

BIOLOGICAL ACTIVITY				
Description	L-Cystine dihydrochloride can be used as a cell culture component and is a sulfur-containing precursor of glutathione (GSH) synthesis. L-Cystine dihydrochloride homeostasis is also important for GSH functions <sup>[1][2]</sup> .			

## REFERENCES

[1]. Pader I, et al. Thioredoxin-related protein of 14 kDa is an efficient L-cystine reductase and S-denitrosylase. Proc Natl Acad Sci U S A. 2014 May 13;111(19):6964-9.

[2]. Xiaojun Lian. Serum-free human pluripotent stem cell culture medium. Patent WO2021094826 A1.

S

HCI HCI

 $\underline{N}H_2$ 

ö

OH

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

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