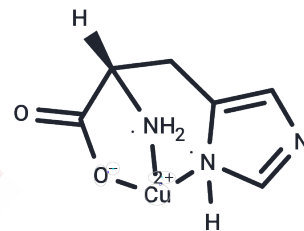


## Copper histidine

## Chemical Properties

CAS No. :	77280-83-2
Formula:	C <sub>6</sub> H <sub>8</sub> CuN <sub>3</sub> O <sub>2</sub>
Molecular Weight:	217.69
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Copper histidine inhibited Ctr1-mediated cellular uptake of oxaliplatin in vitro without altering oxaliplatin accumulation of platinum or neurotoxicity in DRG tissues in vivo. Copper histidine is administered orally for the treatment of Menkes disease.
Targets(IC50)	Others
In vitro	Copper histidine (10 μmol/L) inhibited cellular uptake of oxaliplatin mediated by Ctr1 in HEK293 cells overexpressing rat Ctr1.[1]

## Solubility Information

Solubility	H <sub>2</sub> O: < 1 mg/mL (insoluble or slightly soluble) DMSO: < 1 mg/mL (insoluble or slightly soluble) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.5937 mL	22.9684 mL	45.9369 mL
5 mM	0.9187 mL	4.5937 mL	9.1874 mL
10 mM	0.4594 mL	2.2968 mL	4.5937 mL
50 mM	0.0919 mL	0.4594 mL	0.9187 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Kroepfl T, et al. Copper concentration of liver tissue under long-term copper-histidine therapy in a patient with Menkes disease. *J Inherit Metab Dis.* 2006;29(4):593.

Ip V, et al. Evaluation of effects of copper histidine on copper transporter 1-mediated accumulation of platinum and oxaliplatin-induced neurotoxicity in vitro and in vivo. *Clin Exp Pharmacol Physiol.* 2013;40(6):371-378.

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