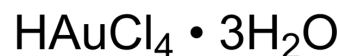


Gold(III) chloride trihydrate

Cat. No.:	HY-W094581
CAS No.:	16961-25-4
Molecular Formula:	HAuCl ₄ ·3H ₂ O
Molecular Weight:	393.83
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

H₂O : 150 mg/mL (380.88 mM; Need ultrasonic and warming)
DMSO : 100 mg/mL (253.92 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
	Concentration				
	1 mM		2.5392 mL	12.6958 mL	25.3917 mL
	5 mM		0.5078 mL	2.5392 mL	5.0783 mL
	10 mM		0.2539 mL	1.2696 mL	2.5392 mL

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

BIOLOGICAL ACTIVITY

Description

Gold (III) chloride trihydrate is a reducing agent. Gold (III) chromium trihydrate can be used for chemical synthesis of gold nanoparticles (NP) and spirochromene derivatives^{[1][2]}.

REFERENCES

- [1]. Kidwai M, et al. Gold (III) chloride (HAuCl₄·3H₂O) in PEG: A new and efficient catalytic system for the synthesis of functionalized spirochromenes[J]. Applied Catalysis A: General, 2012, 425: 35-43.
- [2]. Ramos M, et al. Hardness and Elastic Modulus on Six-Fold Symmetry Gold Nanoparticles. Materials (Basel). 2013;6(1):198-205. Published 2013 Jan 14.

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

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