

Product Information

Chitosan-modified gold nanoclusters (CS-AuNCs)

Cat. No.: X26-04-ZQ108

Size: 100 mg; 250 mg; 500 mg; 1 g; 5 g

Synonym: Chitosan-capped AuNCs; CS-Au clusters; Chitosan-stabilized gold nanoclusters

This product is for research use only and is not intended for diagnostic use.

Product Information

Description	Chitosan-modified gold nanoclusters (CS-AuNCs) are ultra-small gold clusters stabilized and functionalized by chitosan molecules. These nanoclusters exhibit strong fluorescence due to quantum size effects, with the chitosan providing water solubility and biological anchoring sites.
Source	Custom synthesis
Partical Size	2 nm, 5 nm, 10 nm, 15 nm
Functional Group	Chitosan
Form	Solid or powder
Purity	≥95%
Impurities	No visible impurities to the naked eye.
Identity	HPLC/MS/NMR
Stability	This product is stable for one year when stored at the recommended temperature in lyophilized powder.
Quality Level	Research grade
Applications	Chitosan-modified gold nanoclusters (CS-AuNCs) are used for the fluorescent sensing of heavy metals (such as Hg^{2+}), the study of bio-imaging markers, and the investigation of energy transfer in polymer-metal hybrids.
Storage	Store at -20°C.