

Product Information

Amino-functionalized MSN-coated gold nanorods (AuNRs@MSN-NH₂)

Cat. No.: X26-04-ZQ032

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

Synonym: AuNRs@MSN-NH₂; Amine-modified MSN-coated gold rods; NH₂-mesoporous silica encapsulated AuNRs

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

Product Information

Description	Amino-functionalized MSN-coated gold nanorods (AuNRs@MSN-NH ₂) are anisotropic gold nanostructures coated with an amine-functionalized mesoporous silica shell. The gold nanorods provide longitudinal surface plasmon resonance (LSPR) in the near-infrared region, while the shell provides a high loading capacity for molecular payloads.
Source	Custom synthesis
Functional Group	Amino
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	Amino-functionalized MSN-coated gold nanorods (AuNRs@MSN-NH ₂) are used for photothermal conversion studies, the development of targeted fluorescent probes, and the study of light-triggered drug release.
Storage	Store at -20°C.