

Product Information

Graphene/silver nanoparticle composites (GR-AgNPs)

Cat. No.: X26-06-ZQ2877

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

Synonym: GR-AgNPs; Graphene/silver nanoparticle composite sheets; Graphene-silver binary nanohybrids; Graphene matrix embedded silver nanoparticles

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

Product Information

Description	This advanced composite material comprises a high-surface-area two-dimensional graphene sheet network decorated with crystalline silver (Ag) nanoparticles. The graphitic carbon framework prevents silver nanoparticle aggregation through strong physical spacing, while the anchored silver particles introduce distinct noble-metal plasmonic characteristics and improved electronic charge transport over the carbon facets. This composition displays excellent electrical conductivity paired with high electrocatalytic surface areas.
Source	Custom synthesis
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	This product can be used for investigating charge transport kinetics in carbon-metal networks, evaluating plasmonic electronic interactions, and testing heterogeneous electrocatalyst configurations.
Storage	Store at -20°C.