

Product Information

Silver/manganese tetroxide/reduced graphene oxide ternary nanocomposites (Ag-Mn₃O₄/rGO)

Cat. No.: X26-06-ZQ2862

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

Synonym: Ag-Mn₃O₄/rGO; Silver/manganese tetroxide/reduced graphene oxide ternary nanohybrids; Ag-Mn₃O₄ nanoparticle deposited rGO sheets; Silver manganese tetroxide reduced graphene oxide ternary composite systems

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

Product Information

Description	This advanced ternary composite features a hierarchical architecture composed of a high-surface-area two-dimensional reduced graphene oxide (rGO) sheet network co-decorated with crystalline manganese tetroxide (Mn ₃ O ₄) nanoparticles and metallic silver (Ag) nanoparticles. The graphitic carbon framework prevents nanoparticle sintering and provides exceptional electrical conductivity, while the integrated Mn ₃ O ₄ and silver phases introduce highly synergistic multi-valent redox couples and plasmonic electronic configurations. This configuration establishes extensive electronic transport pathways and robust mechanical stability across the composite facets.
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 ternary carbon-metal-oxide networks, evaluating electrochemical capacitance parameters, and testing heterogeneous electrocatalyst configurations.
Storage	Store at -20°C.