



Product Information

Rosa roxburghii polysaccharide/silver nanoparticle complexes

Cat. No.: X26-06-ZQ2976

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

Synonym: Rosa roxburghii polysaccharide/AgNPs; Rosa roxburghii polysaccharide-stabilized silver nanospheres; Rosa roxburghii fruit extract polysaccharide green-synthesized silver nanoparticles; Rosa roxburghii polysaccharide encapsulated silver bio-nanoparticles

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

Product Information

Description	This bio-inorganic material features face-centered cubic silver nanoparticles stabilized by a natural polysaccharide matrix extracted from Rosa roxburghii fruit. The heavily branched carbohydrate chains wrap around the silver cores, forming an electrosteric hydration shell that shields the metal facets from rapid chemical oxidation. This composition yields a highly stable aqueous suspension with unique surface energy parameters driven by the native galacturonic acid and neutral sugar residues.
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 to study complex polysaccharide-metal oxide binding physics, analyze natural biopolymer steric shielding dynamics, and evaluate microparticle fluid transport profiles.
Storage	Store at -20°C.