

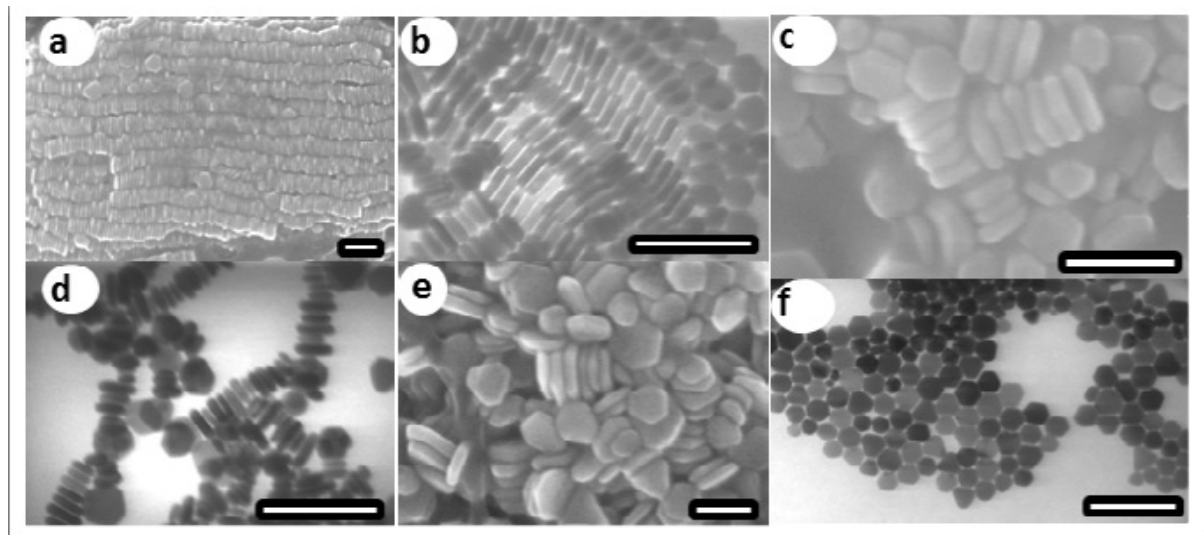
SILVER HEXAGONAL NANOPRISM

Product Number: 209HP

Description: Sciventions Silver Nanoprisms (AgNPr) are monodisperse hexagonal nanoplatelets with highly controlled diameters and thicknesses. These particles are thiolate-stabilized and have a high degree of monodispersity, with better than 10% and 15% standard deviation in lateral size and thickness (<1 nm variation) respectively. The nanoprism width and thickness are well controlled, resulting in highly tunable plasmon resonance peaks. The nanoprisms can be self-assembled into closely packed stacks with a column structure similar to discotic liquid crystals. With dry nanoprisms, an overall 107 SERS enhancement was achieved with ligands removed via oxidative plasma treatment, measured using a common 5,5'-dithiobis(2-nitrobenzoic acid) probe.

Caution: Store between 4-22°C; do not freeze.

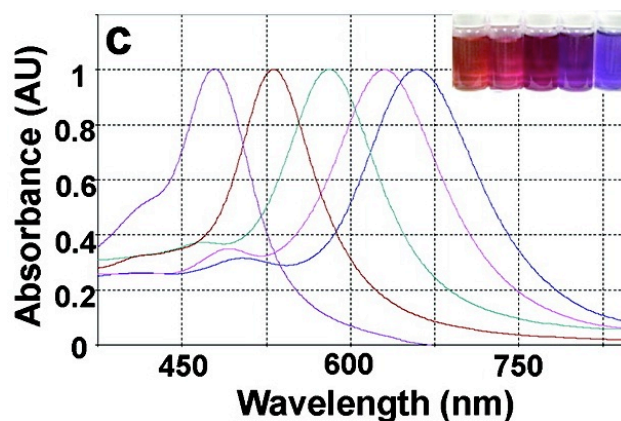
Particle TEM:



Properties:

Appearance	Red to purple, depending on tunable plasmon peak
Particle Shape	Hexagonal plates
Range of available plasmonic peak	500 - 700 nm
Range of available Particle Size	Thickness: 5 - 15 nm, Diameter: 30 - 110 nm
Concentration	0.1 mM Ag
Solvent	Water
CAS Number	7440-22-4

Particle Absorbance:



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