

## SILVER NANOFLOWER

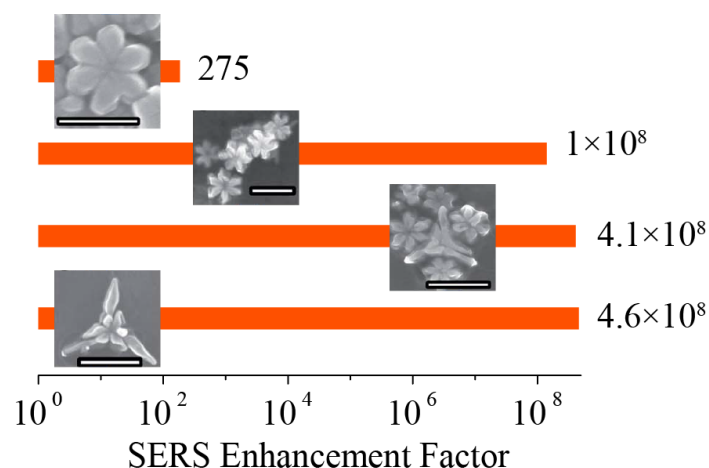
**Product Number:** 208SF

**Description:** Sciventions Silver Nanoflower particles (AgNFLs) are highly symmetric multifaceted prismatic silver nanoparticles. They offer symmetric and sharp silver edges that are ideal “hot” spots for optical applications including SERS, optical heatings, and photovoltaics. AgNFLs have been shown to be the best of all Sciventions nanoparticles for SERS enhancement, achieving enhancement factors of  $4.6 \times 10^8$  and 425 for dry solid films and aqueous dispersions respectively. AgNFLs are tunable to laser wavelength for resonant SERS. Furthermore, nanoscale asperity size can also be tailored. These particles are available in low and high levels of faceting. Please contact us at sales@sciventions.com if you require other sizes, concentrations or shapes.

### Properties:

<b>Appearance</b>	Clear to beige (brownish gray for larger particles)
<b>Particle Shape</b>	Nanoflower multifaceted prismatic shape
<b>Plasmonic Peak</b>	Complex and broad
<b>Particle Size, TEM</b>	diameter: 130 - 2250 nm; thickness 5 - 50 nm
<b>Concentration</b>	0.1 mM Ag
<b>Solvent</b>	Water
<b>CAS Number</b>	7440-22-4

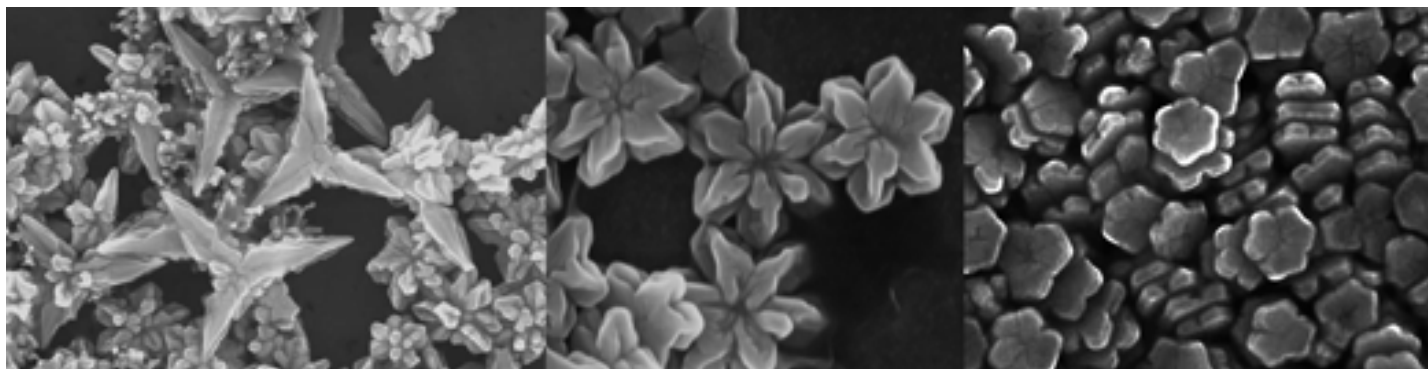
### Particle SERS Enhancement Factor:



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

### Particle TEM:

Three levels of nanoparticle faceting are offered: high, medium, and low.



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