

# CADMIUM TELLURIDE Silicon CORE Shell

**99.9%**  
(Purity)

Cadmium telluride (CdTe) nanoparticles (NPs) are known for their unique physical and chemical properties. NP synthesis via a size-controlled procedure has become an intriguing research topic because NPs exhibit novel optical and physical properties depending on their size. The unique advantage of colloidal QDs is their size-dependent physical and optical properties such as the energy band gap, narrow emission with small full width at half maximum, broad spectral photo response from ultraviolet to infrared regions, and their compatibility with solution processing.

## Applications

Cadmium telluride/silicon (CdTe) Nps have been significantly used in work and biomedical applications owing to their tunable photoluminescence inside the visible range once excited by a single excitation wavelength. For evidence, CdTe/silicon Nps are expected to be possible probes in the bio-imaging of living cells as of their many benefits for example higher photo stability, more controllable and narrower emission bands, and higher quantum fabricate in relationship with conformist fluorescent dyes.



Stock no:  
**NS6130-12-000566**

## CHEMICAL IDENTIFIERS

Purity : 99.9%  
Chemical name : CdTe/Si



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