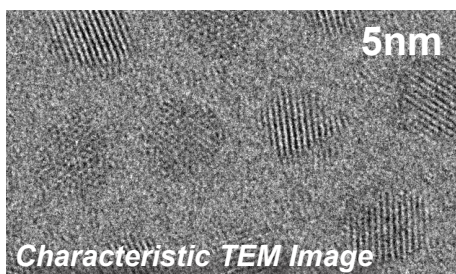
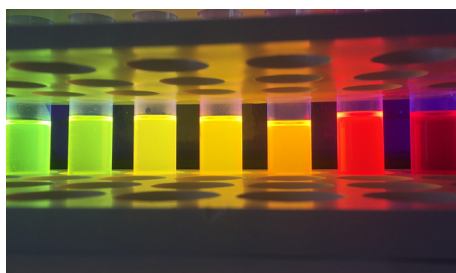


Sold under a distribution agreement with UbiQD, Inc. for research purposes only. US Patent No. US9748422.

Copper Indium Disulfide/Zinc Sulfide Quantum Dots, QY >75% CAS# 927198-36-5; Available Unit Sizes: 50mg, 250mg		
Catalog #	Peak Emission	FWHM
29-8500	550nm ± 10nm	115nm ± 20nm
29-8510	590nm ± 10nm	120nm ± 20nm
29-8520	630nm ± 10nm	125nm ± 20nm
29-8530	680nm ± 10nm	130nm ± 20nm
29-8540	800nm ± 10nm	180nm ± 20nm
29-8550	950nm ± 10nm	330nm ± 20nm



ADVANTAGES OVER TRADITIONAL QDs

- ◆ Free of toxic heavy metals (e.g. Cd, Pb) or phosphines
- ◆ Made via safe and scalable non-injection synthesis
- ◆ Bright PL (up to >75% QY) tunable from 550 to 950nm
- ◆ Low self-absorption due to a large Stokes shift >300 meV
- ◆ Stable PL at elevated temperature in air, water, and various composites

USE & HANDLING RECOMMENDATIONS

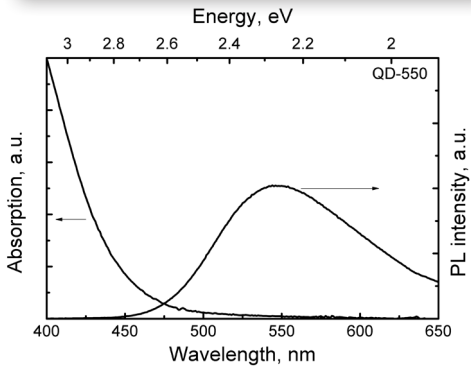
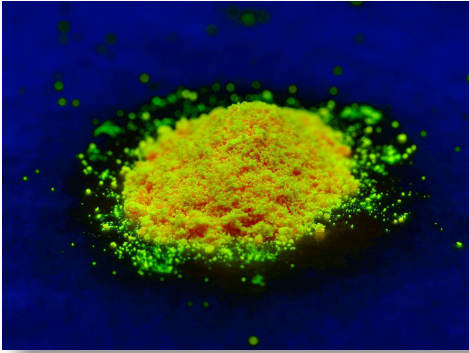
Products are shipped in powder form, and are soluble in non-polar solvents (e.g., toluene, chloroform). Typical concentrations are ~5-200 mg/mL for most applications. The dots have been cleaned by dissolution/precipitation three times to form a dried powder. Suggested use within 12 months of receipt.

PRODUCT SPECIFICATIONS

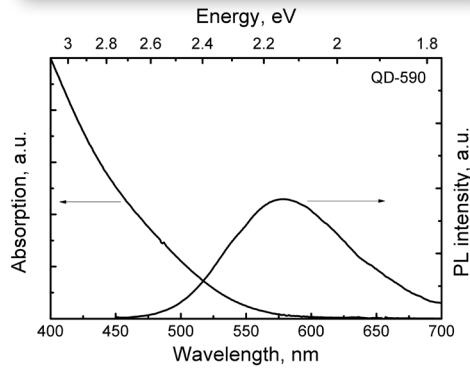
QY	>75%
Material composition	CuInS ₂ /ZnS
Material Form	Powder
Compatible Solvents	Nonpolar solvents: toluene, chloroform
Particle Size	5-10nm

Product Images & Spectra Graphs

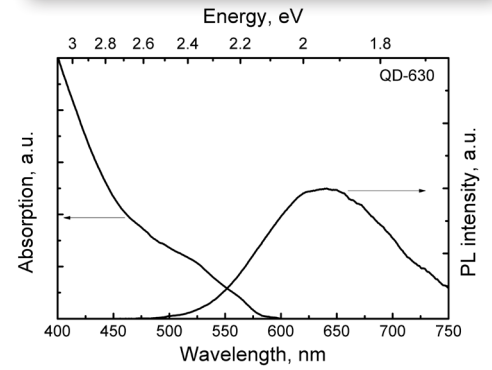
Peak Emission: 550nm



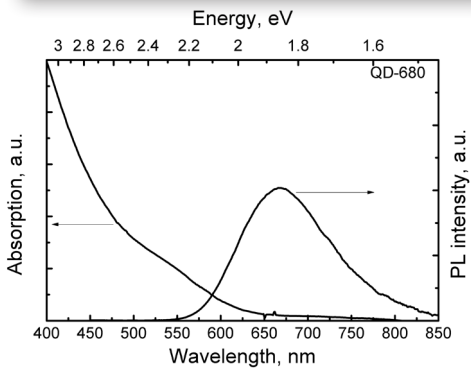
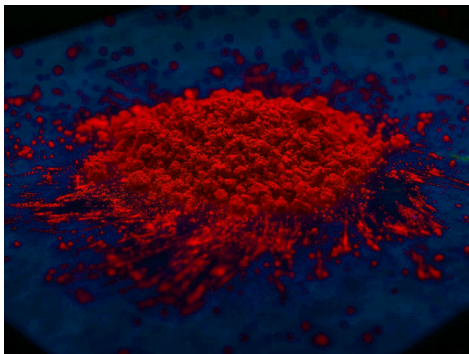
Peak Emission: 590nm



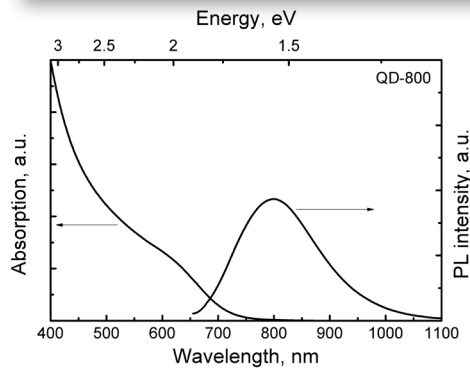
Peak Emission: 630nm



Peak Emission: 680nm



Peak Emission: 800nm



Peak Emission: 950nm

