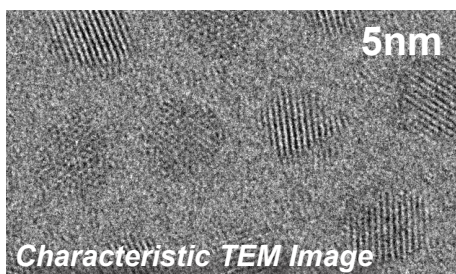
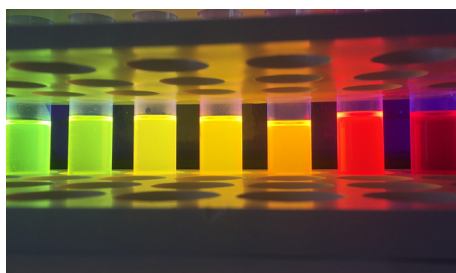


Sold under a distribution agreement with UbiQD, Inc. for research purposes only. US Patent No. US9748422.

| 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

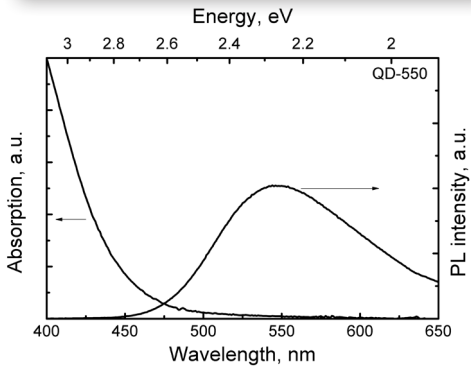
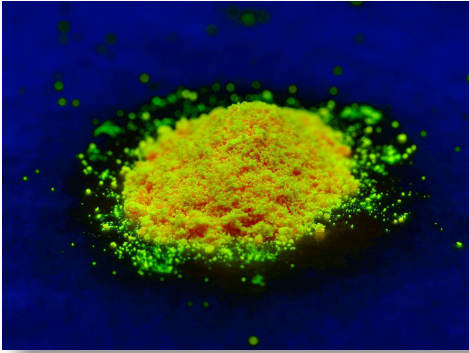
Products are shipped in powder form, and are soluble in non-polar solvents (e.g., toluene, chloroform). Typical concentrations are ~5-200 mg/mL for most applications. The dots have been cleaned by dissolution/precipitation three times to form a dried powder. Suggested use within 12 months of receipt.

PRODUCT SPECIFICATIONS

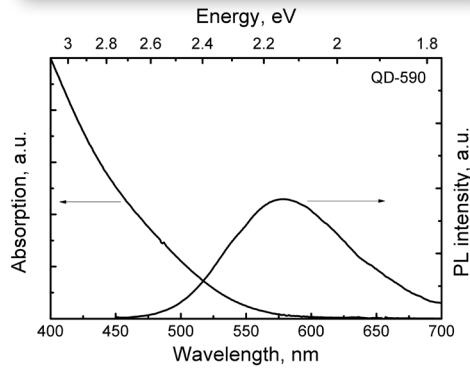
| | |
|-----------------------------|---|
| QY | >75% |
| Material composition | CuInS ₂ /ZnS |
| Material Form | Powder |
| Compatible Solvents | Nonpolar solvents: toluene, chloroform |
| Particle Size | 5-10nm |

Product Images & Spectra Graphs

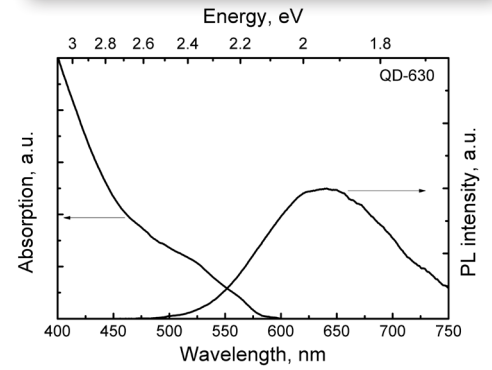
Peak Emission: 550nm



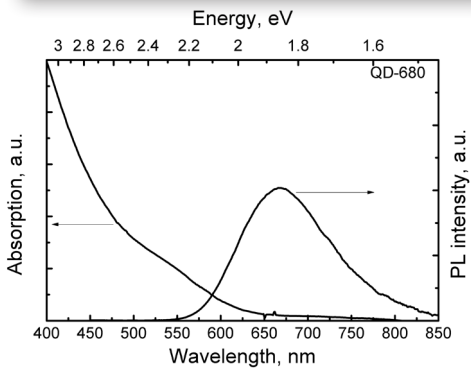
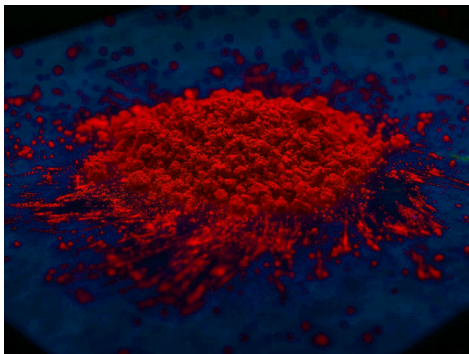
Peak Emission: 590nm



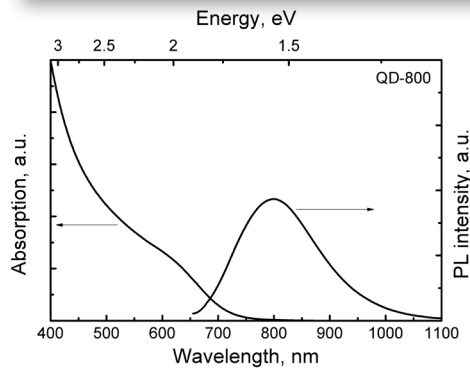
Peak Emission: 630nm



Peak Emission: 680nm



Peak Emission: 800nm



Peak Emission: 950nm

