

## Quantum Dot (Solution)

Product No.	Shortname	Surface Group	PL emission	FWHM	Quantum Yield	Solvent	Concentration
LT-Q0001	InP/ZnS-480	TOP	480±15 nm	<45 nm	>50%	n-Heptane	25 mg/mL
LT-Q0002	InP/ZnS-480	TOP	480±15 nm	<45 nm	>50%	n-Octane	25 mg/mL
LT-Q0003	InP/ZnS-480	TOP	480±15 nm	<45 nm	>50%	Toluene	25 mg/mL
LT-Q0004	InP/ZnS-480	Oleamine	480±15 nm	<45 nm	>50%	n-Heptane	25 mg/mL
LT-Q0005	InP/ZnS-480	Oleamine	480±15 nm	<45 nm	>50%	n-Octane	25 mg/mL
LT-Q0006	InP/ZnS-480	Oleamine	480±15 nm	<45 nm	>50%	Toluene	25 mg/mL
LT-Q0007	InP/ZnS-480	Oleic acid	480±15 nm	<45 nm	>50%	n-Heptane	25 mg/mL
LT-Q0008	InP/ZnS-480	Oleic acid	480±15 nm	<45 nm	>50%	n-Octane	25 mg/mL
LT-Q0009	InP/ZnS-480	Oleic acid	480±15 nm	<45 nm	>50%	Toluene	25 mg/mL
LT-Q0010	InP/ZnS-480	Thiol	480±15 nm	<45 nm	>50%	n-Heptane	25 mg/mL
LT-Q0011	InP/ZnS-480	Thiol	480±15 nm	<45 nm	>50%	n-Octane	25 mg/mL
LT-Q0012	InP/ZnS-480	Thiol	480±15 nm	<45 nm	>50%	Toluene	25 mg/mL
LT-Q0013	InP/ZnS-525	TOP	525±15 nm	<37 nm	>75%	n-Heptane	25 mg/mL
LT-Q0014	InP/ZnS-525	TOP	525±15 nm	<37 nm	>75%	n-Octane	25 mg/mL
LT-Q0015	InP/ZnS-525	TOP	525±15 nm	<37 nm	>75%	Toluene	25 mg/mL
LT-Q0016	InP/ZnS-525	Oleamine	525±15 nm	<37 nm	>75%	n-Heptane	25 mg/mL
LT-Q0017	InP/ZnS-525	Oleamine	525±15 nm	<37 nm	>75%	n-Octane	25 mg/mL
LT-Q0018	InP/ZnS-525	Oleamine	525±15 nm	<37 nm	>75%	Toluene	25 mg/mL
LT-Q0019	InP/ZnS-525	Oleic acid	525±15 nm	<37 nm	>75%	n-Heptane	25 mg/mL
LT-Q0020	InP/ZnS-525	Oleic acid	525±15 nm	<37 nm	>75%	n-Octane	25 mg/mL
LT-Q0021	InP/ZnS-525	Oleic acid	525±15 nm	<37 nm	>75%	Toluene	25 mg/mL
LT-Q0022	InP/ZnS-525	Thiol	525±15 nm	<37 nm	>75%	n-Heptane	25 mg/mL
LT-Q0023	InP/ZnS-525	Thiol	525±15 nm	<37 nm	>75%	n-Octane	25 mg/mL
LT-Q0024	InP/ZnS-525	Thiol	525±15 nm	<37 nm	>75%	Toluene	25 mg/mL
LT-Q0025	InP/ZnS-560	TOP	560±15 nm	<45 nm	>60%	n-Heptane	25 mg/mL
LT-Q0026	InP/ZnS-560	TOP	560±15 nm	<45 nm	>60%	n-Octane	25 mg/mL
LT-Q0027	InP/ZnS-560	TOP	560±15 nm	<45 nm	>60%	Toluene	25 mg/mL
LT-Q0028	InP/ZnS-560	Oleamine	560±15 nm	<45 nm	>60%	n-Heptane	25 mg/mL
LT-Q0029	InP/ZnS-560	Oleamine	560±15 nm	<45 nm	>60%	n-Octane	25 mg/mL
LT-Q0030	InP/ZnS-560	Oleamine	560±15 nm	<45 nm	>60%	Toluene	25 mg/mL
LT-Q0031	InP/ZnS-560	Oleic acid	560±15 nm	<45 nm	>60%	n-Heptane	25 mg/mL
LT-Q0032	InP/ZnS-560	Oleic acid	560±15 nm	<45 nm	>60%	n-Octane	25 mg/mL
LT-Q0033	InP/ZnS-560	Oleic acid	560±15 nm	<45 nm	>60%	Toluene	25 mg/mL
LT-Q0034	InP/ZnS-560	Thiol	560±15 nm	<45 nm	>60%	n-Heptane	25 mg/mL
LT-Q0035	InP/ZnS-560	Thiol	560±15 nm	<45 nm	>60%	n-Octane	25 mg/mL
LT-Q0036	InP/ZnS-560	Thiol	560±15 nm	<45 nm	>60%	Toluene	25 mg/mL
LT-Q0037	InP/ZnS-600	TOP	600±15 nm	<45 nm	>80%	n-Heptane	25 mg/mL
LT-Q0038	InP/ZnS-600	TOP	600±15 nm	<45 nm	>80%	n-Octane	25 mg/mL

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Product No.	Shortname	Surface Group	PL emission	FWHM	Quantum Yield	Solvent	Concentration
LT-Q0039	InP/ZnS-600	TOP	600±15 nm	<45 nm	>80%	Toluene	25 mg/mL
LT-Q0040	InP/ZnS-600	Oleamine	600±15 nm	<45 nm	>80%	n-Heptane	25 mg/mL
LT-Q0041	InP/ZnS-600	Oleamine	600±15 nm	<45 nm	>80%	n-Octane	25 mg/mL
LT-Q0042	InP/ZnS-600	Oleamine	600±15 nm	<45 nm	>80%	Toluene	25 mg/mL
LT-Q0043	InP/ZnS-600	Oleic acid	600±15 nm	<45 nm	>80%	n-Heptane	25 mg/mL
LT-Q0044	InP/ZnS-600	Oleic acid	600±15 nm	<45 nm	>80%	n-Octane	25 mg/mL
LT-Q0045	InP/ZnS-600	Oleic acid	600±15 nm	<45 nm	>80%	Toluene	25 mg/mL
LT-Q0046	InP/ZnS-600	Thiol	600±15 nm	<45 nm	>80%	n-Heptane	25 mg/mL
LT-Q0047	InP/ZnS-600	Thiol	600±15 nm	<45 nm	>80%	n-Octane	25 mg/mL
LT-Q0048	InP/ZnS-600	Thiol	600±15 nm	<45 nm	>80%	Toluene	25 mg/mL
LT-Q0049	InP/ZnS-625	TOP	625±15 nm	<45 nm	>80%	n-Heptane	25 mg/mL
LT-Q0050	InP/ZnS-625	TOP	625±15 nm	<45 nm	>80%	n-Octane	25 mg/mL
LT-Q0051	InP/ZnS-625	TOP	625±15 nm	<45 nm	>80%	Toluene	25 mg/mL
LT-Q0052	InP/ZnS-625	Oleamine	625±15 nm	<45 nm	>80%	n-Heptane	25 mg/mL
LT-Q0053	InP/ZnS-625	Oleamine	625±15 nm	<45 nm	>80%	n-Octane	25 mg/mL
LT-Q0054	InP/ZnS-625	Oleamine	625±15 nm	<45 nm	>80%	Toluene	25 mg/mL
LT-Q0055	InP/ZnS-625	Oleic acid	625±15 nm	<45 nm	>80%	n-Heptane	25 mg/mL
LT-Q0056	InP/ZnS-625	Oleic acid	625±15 nm	<45 nm	>80%	n-Octane	25 mg/mL
LT-Q0057	InP/ZnS-625	Oleic acid	625±15 nm	<45 nm	>80%	Toluene	25 mg/mL
LT-Q0058	InP/ZnS-625	Thiol	625±15 nm	<45 nm	>80%	n-Heptane	25 mg/mL
LT-Q0059	InP/ZnS-625	Thiol	625±15 nm	<45 nm	>80%	n-Octane	25 mg/mL
LT-Q0060	InP/ZnS-625	Thiol	625±15 nm	<45 nm	>80%	Toluene	25 mg/mL
LT-Q0061	InP/ZnS-525	PEG-COOH	525±15 nm	<37 nm	>40%	Water	10 nmole
LT-Q0062	InP/ZnS-560	PEG-COOH	560±15 nm	<45 nm	>40%	Water	10 nmole
LT-Q0063	InP/ZnS-600	PEG-COOH	600±15 nm	<45 nm	>40%	Water	10 nmole
LT-Q0064	InP/ZnS-625	PEG-COOH	625±15 nm	<45 nm	>40%	Water	10 nmole
LT-Q0065	InP/ZnS-700	PEG-COOH	700±15 nm	<80 nm		Water	10 nmole
LT-Q0066	InP/ZnS-525	MPA	525±15 nm	<37 nm	>40%	Water	10 nmole
LT-Q0067	InP/ZnS-560	MPA	560±15 nm	<45 nm	>40%	Water	10 nmole
LT-Q0068	InP/ZnS-600	MPA	600±15 nm	<45 nm	>40%	Water	10 nmole
LT-Q0069	InP/ZnS-625	MPA	625±15 nm	<45 nm	>40%	Water	10 nmole
LT-Q0070	InP/ZnS-700	MPA	700±15 nm	<80 nm		Water	10 nmole
LT-Q0071	CdSe/ZnS-450		450±10 nm	<25 nm	>80%	n-Heptane	25 mg/mL
LT-Q0072	CdSe/ZnS-450		450±10 nm	<25 nm	>80%	n-Octane	25 mg/mL
LT-Q0073	CdSe/ZnS-450		450±10 nm	<25 nm	>80%	Toluene	25 mg/mL
LT-Q0074	CdSe/ZnS-470		470±10 nm	<25 nm	>80%	n-Heptane	25 mg/mL
LT-Q0075	CdSe/ZnS-470		470±10 nm	<25 nm	>80%	n-Octane	25 mg/mL
LT-Q0076	CdSe/ZnS-470		470±10 nm	<25 nm	>80%	Toluene	25 mg/mL
LT-Q0077	CdSe/ZnS-525		525±10 nm	<25 nm	>90%	n-Heptane	25 mg/mL
LT-Q0078	CdSe/ZnS-525		525±10 nm	<25 nm	>90%	n-Octane	25 mg/mL
LT-Q0079	CdSe/ZnS-525		525±10 nm	<25 nm	>90%	Toluene	25 mg/mL
LT-Q0080	CdSe/ZnS-545		545±10 nm	<28 nm	>85%	n-Heptane	25 mg/mL
LT-Q0081	CdSe/ZnS-545		545±10 nm	<28 nm	>85%	n-Octane	25 mg/mL
LT-Q0082	CdSe/ZnS-545		545±10 nm	<28 nm	>85%	Toluene	25 mg/mL

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Product No.	Shortname	Surface Group	PL emission	FWHM	Quantum Yield	Solvent	Concentration
LT-Q0083	CdSe/ZnS-625		625±10 nm	<28 nm	>90%	n-Heptane	25 mg/mL
LT-Q0084	CdSe/ZnS-625		625±10 nm	<28 nm	>90%	n-Octane	25 mg/mL
LT-Q0085	CdSe/ZnS-625		625±10 nm	<28 nm	>90%	Toluene	25 mg/mL
LT-Q0086	CdSe/ZnS-645		645±10 nm	<30 nm	>80%	n-Heptane	25 mg/mL
LT-Q0087	CdSe/ZnS-645		645±10 nm	<30 nm	>80%	n-Octane	25 mg/mL
LT-Q0088	CdSe/ZnS-645		645±10 nm	<30 nm	>80%	Toluene	25 mg/mL
LT-Q0089	CdSe/ZnS-450	MPA	450±10 nm	<25 nm	>50%	Water	10 nmole
LT-Q0090	CdSe/ZnS-450	CA	450±10 nm	<25 nm	>50%	Water	10 nmole
LT-Q0091	CdSe/ZnS-450	GSH	450±10 nm	<25 nm	>50%	Water	10 nmole
LT-Q0092	CdSe/ZnS-450	PEG-COOH	450±10 nm	<25 nm	>40%	Water	10 nmole
LT-Q0093	CdSe/ZnS-450	PEG-NH2	450±10 nm	<25 nm	>40%	Water	10 nmole
LT-Q0094	CdSe/ZnS-470	MPA	470±10 nm	<25 nm	>50%	Water	10 nmole
LT-Q0095	CdSe/ZnS-470	CA	470±10 nm	<25 nm	>50%	Water	10 nmole
LT-Q0096	CdSe/ZnS-470	GSH	470±10 nm	<25 nm	>50%	Water	10 nmole
LT-Q0097	CdSe/ZnS-470	PEG-COOH	470±10 nm	<25 nm	>40%	Water	10 nmole
LT-Q0098	CdSe/ZnS-470	PEG-NH2	470±10 nm	<25 nm	>40%	Water	10 nmole
LT-Q0099	CdSe/ZnS-500	MPA	500±10 nm	<25 nm	>50%	Water	10 nmole
LT-Q0100	CdSe/ZnS-500	CA	500±10 nm	<25 nm	>50%	Water	10 nmole
LT-Q0101	CdSe/ZnS-500	GSH	500±10 nm	<25 nm	>50%	Water	10 nmole
LT-Q0102	CdSe/ZnS-500	PEG-COOH	500±10 nm	<25 nm	>40%	Water	10 nmole
LT-Q0103	CdSe/ZnS-500	PEG-NH2	500±10 nm	<25 nm	>40%	Water	10 nmole
LT-Q0104	CdSe/ZnS-525	MPA	525±10 nm	<25 nm	>70%	Water	10 nmole
LT-Q0105	CdSe/ZnS-525	CA	525±10 nm	<25 nm	>70%	Water	10 nmole
LT-Q0106	CdSe/ZnS-525	GSH	525±10 nm	<25 nm	>70%	Water	10 nmole
LT-Q0107	CdSe/ZnS-525	PEG-COOH	525±10 nm	<25 nm	>60%	Water	10 nmole
LT-Q0108	CdSe/ZnS-525	PEG-NH2	525±10 nm	<25 nm	>60%	Water	10 nmole
LT-Q0109	CdSe/ZnS-545	MPA	545±10 nm	<28 nm	>70%	Water	10 nmole
LT-Q0110	CdSe/ZnS-545	CA	545±10 nm	<28 nm	>70%	Water	10 nmole
LT-Q0111	CdSe/ZnS-545	GSH	545±10 nm	<28 nm	>70%	Water	10 nmole
LT-Q0112	CdSe/ZnS-545	PEG-COOH	545±10 nm	<28 nm	>60%	Water	10 nmole
LT-Q0113	CdSe/ZnS-545	PEG-NH2	545±10 nm	<28 nm	>60%	Water	10 nmole
LT-Q0114	CdSe/ZnS-625	MPA	625±10 nm	<28 nm	>70%	Water	10 nmole
LT-Q0115	CdSe/ZnS-625	CA	625±10 nm	<28 nm	>70%	Water	10 nmole
LT-Q0116	CdSe/ZnS-625	GSH	625±10 nm	<28 nm	>70%	Water	10 nmole
LT-Q0117	CdSe/ZnS-625	PEG-COOH	625±10 nm	<28 nm	>60%	Water	10 nmole
LT-Q0118	CdSe/ZnS-625	PEG-NH2	625±10 nm	<28 nm	>60%	Water	10 nmole
LT-Q0119	CdSe/ZnS-645	MPA	645±10 nm	<30 nm	>70%	Water	10 nmole
LT-Q0120	CdSe/ZnS-645	CA	645±10 nm	<30 nm	>70%	Water	10 nmole
LT-Q0121	CdSe/ZnS-645	GSH	645±10 nm	<30 nm	>70%	Water	10 nmole
LT-Q0122	CdSe/ZnS-645	PEG-COOH	645±10 nm	<30 nm	>60%	Water	10 nmole
LT-Q0123	CdSe/ZnS-645	PEG-NH2	645±10 nm	<30 nm	>60%	Water	10 nmole

## Quantum Dot (Powder)

Product No.	Shortname	PL emission	FWHM	Quantum Yield	Quantity
LT-Q0124	PbS-850	850±50 nm	120~150 nm	>30%	50/100/300 mg
LT-Q0125	PbS-950	950±50 nm	120~150 nm	>30%	50/100/300 mg
LT-Q0126	PbS-1050	1050±50 nm	120~150 nm	>30%	50/100/300 mg
LT-Q0127	PbS-1150	1150±50 nm	120~150 nm	>30%	50/100/300 mg
LT-Q0128	PbS-1250	1250±50 nm	120~150 nm	>30%	50/100/300 mg
LT-Q0129	PbS-1350	1350±50 nm	120~150 nm	>30%	50/100/300 mg
LT-Q0130	PbS-1450	1450±50 nm	120~150 nm	>30%	50/100/300 mg
LT-Q0131	PbS-1600	1550±50 nm	120~150 nm	>30%	50/100/300 mg
LT-Q0175	Perovskite-450	450±15 nm	15~35 nm		25/50/100 mg
LT-Q0176	Perovskite-480	480±15 nm	15~35 nm		25/50/100 mg
LT-Q0177	Perovskite-510	510±15 nm	15~35 nm		25/50/100 mg
LT-Q0178	Perovskite-530	530±15 nm	15~35 nm		50 mg
LT-Q0179	Perovskite-550	550±15 nm	15~35 nm		25/50/100 mg
LT-Q0180	ZnCuInS/ZnS-530	530nm	100 nm		25/100/250 mg
LT-Q0181	ZnCuInS/ZnS-560	560nm	100 nm		25/100/250 mg
LT-Q0182	ZnCuInS/ZnS-590	590nm	100 nm		25/100/250 mg
LT-Q0183	ZnCuInS/ZnS-610	610nm	100 nm		25/100/250 mg
LT-Q0184	ZnCuInS/ZnS-650	650nm	100 nm		25/100/250 mg

## Quantum Dot (Powder)

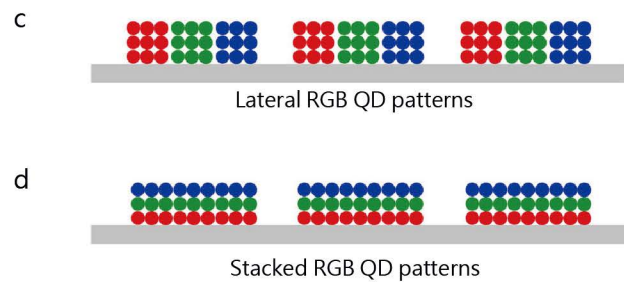
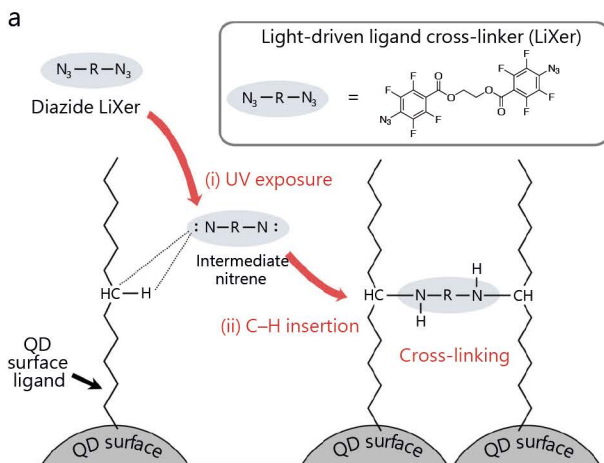
Product No.	Shortname	PL emission	Quantity	Product No.	Shortname	PL emission	Quantity
LT-Q0133	CdSe/ZnS-530	530 nm	25/50/100 mg	LT-Q0155	CdTe-600	600 nm	25/50/100 mg
LT-Q0134	CdSe/ZnS-540	540 nm	25/50/100 mg	LT-Q0156	CdTe-610	610 nm	25/50/100 mg
LT-Q0135	CdSe/ZnS-550	550 nm	25/50/100 mg	LT-Q0157	CdTe-620	620 nm	25/50/100 mg
LT-Q0136	CdSe/ZnS-560	560 nm	25/50/100 mg	LT-Q0158	CdTe-630	630 nm	25/50/100 mg
LT-Q0137	CdSe/ZnS-570	570 nm	25/50/100 mg	LT-Q0159	CdTe-640	640 nm	25/50/100 mg
LT-Q0138	CdSe/ZnS-580	580 nm	25/50/100 mg	LT-Q0160	CdTe-650	650 nm	25/50/100 mg
LT-Q0139	CdSe/ZnS-590	590 nm	25/50/100 mg	LT-Q0161	CdTe-660	660 nm	25/50/100 mg
LT-Q0140	CdSe/ZnS-600	600 nm	25/50/100 mg	LT-Q0162	CdTe-670	670 nm	25/50/100 mg
LT-Q0141	CdSe/ZnS-610	610 nm	25/50/100 mg	LT-Q0163	CdTe-680	680 nm	25/50/100 mg
LT-Q0142	CdSe/ZnS-620	620 nm	25/50/100 mg	LT-Q0164	CdTe-690	690 nm	25/50/100 mg
LT-Q0143	CdSe/ZnS-630	630 nm	25/50/100 mg	LT-Q0165	CdTe-700	700 nm	25/50/100 mg
LT-Q0144	CdSe/ZnS-640	640 nm	25/50/100 mg	LT-Q0166	CdTe-710	710 nm	25/50/100 mg
LT-Q0145	CdSe/ZnS-650	650 nm	25/50/100 mg	LT-Q0167	CdTe-720	720 nm	25/50/100 mg
LT-Q0146	CdTe-510	510 nm	25/50/100 mg	LT-Q0168	CdTe-730	730 nm	25/50/100 mg
LT-Q0147	CdTe-520	520 nm	25/50/100 mg	LT-Q0169	CdTe-740	740 nm	25/50/100 mg
LT-Q0148	CdTe-530	530 nm	25/50/100 mg	LT-Q0170	CdTe-750	750 nm	25/50/100 mg
LT-Q0149	CdTe-540	540 nm	25/50/100 mg	LT-Q0171	CdTe-760	760 nm	25/50/100 mg
LT-Q0150	CdTe-550	550 nm	25/50/100 mg	LT-Q0172	CdTe-770	770 nm	25/50/100 mg
LT-Q0151	CdTe-560	560 nm	25/50/100 mg	LT-Q0173	CdTe-780	780 nm	25/50/100 mg
LT-Q0152	CdTe-570	570 nm	25/50/100 mg	LT-Q0174	CdTe-790	790 nm	25/50/100 mg
LT-Q0153	CdTe-580	580 nm	25/50/100 mg	LT-Q0185	ZnCdSeS-470	470 nm	5/10/25/50 mg
LT-Q0154	CdTe-590	590 nm	25/50/100 mg	LT-Q0186	ZnCdSeS-480	480 nm	5/10/25/50 mg

## Quantum Dot (Powder)

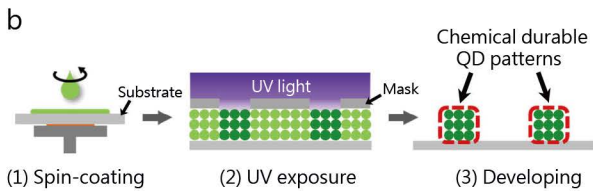
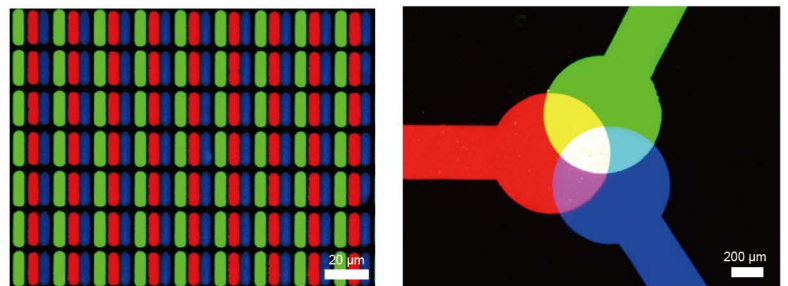
Product No.	Shortname	PL emission	Quantity	Product No.	Shortname	PL emission	Quantity
LT-Q0187	ZnCdSeS-490	490 nm	5/10/25/50 mg	LT-Q0196	ZnCdSeS-580	580 nm	5/10/25/50 mg
LT-Q0188	ZnCdSeS-500	500 nm	5/10/25/50 mg	LT-Q0197	ZnCdSeS-590	590 nm	5/10/25/50 mg
LT-Q0189	ZnCdSeS-510	510 nm	5/10/25/50 mg	LT-Q0198	ZnCdSeS-600	600 nm	5/10/25/50 mg
LT-Q0190	ZnCdSeS-520	520 nm	5/10/25/50 mg	LT-Q0199	ZnCdSeS-610	610 nm	5/10/25/50 mg
LT-Q0191	ZnCdSeS-530	530 nm	5/10/25/50 mg	LT-Q0200	ZnCdSeS-620	620 nm	5/10/25/50 mg
LT-Q0192	ZnCdSeS-540	540 nm	5/10/25/50 mg	LT-Q0201	ZnCdSeS-630	630 nm	5/10/25/50 mg
LT-Q0193	ZnCdSeS-550	550 nm	5/10/25/50 mg	LT-Q0202	ZnCdSe/ZnS-440	440 nm	5/10/25/50 mg
LT-Q0194	ZnCdSeS-560	560 nm	5/10/25/50 mg	LT-Q0203	ZnCdSe/ZnS-480	480 nm	5/10/25/50 mg
LT-Q0195	ZnCdSeS-570	570 nm	5/10/25/50 mg				

## Quantum Dot Ligand Cross-linker

Product No.	Shortname	Chemical Structure	Formula	Grade	M.W.	Source
LT-Q0132	LiXer		C16H4F8N6O4	>97%	496.23 g/mole	Nat Commun 11, 2874 (2020).



Fluorescence microscopic image of RGB QD patterns



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