

## LDS 751

**Synonym:** Quinolinium, 6-(dimethylamino)-2-[4-[4-(dimethylamino)phenyl]-1,3-butadien-1-yl]-1-ethyl-, perchlorate (1:1)

**Catalog No.:** 07510

**Formula:** C<sub>25</sub>H<sub>30</sub>N<sub>3</sub>.ClO<sub>4</sub>    **MW:** 472

**CAS Number:** 181885-68-7

**Appearance:** Dark green crystals

### Lasing Wavelength

Max. (nm)	Range (nm)	Pump Source (nm)	Solvent	Concentration (molar)	Abs λ-max	Fl λ-max	% CE*
743	715-779	Nd:YAG(532) <sup>110</sup>	Methanol	3 x 10 <sup>-4</sup>	551 <sup>m</sup>	732 <sup>m</sup>	11
744	712-782	Nd:YAG(532) <sup>239</sup>	Ethanol	3.2 x 10 <sup>-4</sup>	558 <sup>S</sup>		--
750	714-790	Nd:YAG(side-p,532) <sup>57</sup>	Methanol	3.4 x 10 <sup>-4</sup> (osc),			12
754	714-792	Nd:YAG(end-p,532) <sup>57</sup>	Methanol	3.4 x 10 <sup>-4</sup> (osc), 4.5 x 10 <sup>-5</sup> (amp)			7
764	733-802	Nd:YAG(532) <sup>239</sup>	DMSO	3.2 x 10 <sup>-4</sup>			--
780	740-820	Nd:YAG(532) <sup>151</sup>	DMSO				--
	700-812	Ar(m-l,514) <sup>136</sup>	PC/EG,15/85	2.0 x 10 <sup>-3</sup>			11
754	730-796	Ar(SF) <sup>174</sup>	EPH	2 x 10 <sup>-3</sup>			--
756	710-850	Ar(bb) <sup>68</sup>	PC/EG,1/4	3.4 x 10 <sup>-3</sup>			--
756	720-840	Ar(SF) <sup>68</sup>	PC/EG,1/4	3.4 x 10 <sup>-3</sup>			--
762	715-830	Ar(514) <sup>152</sup>	PC/EG,15/85	1.2 x 10 <sup>-3</sup>			9-11
764	731-806	Ar <sup>174</sup>	EPH	2 x 10 <sup>-3</sup>			--
765	715-840	Ar(all line) <sup>17,150</sup>	PC/EG,15/85	2 x 10 <sup>-3</sup>			14
772	711-845	Ar <sup>127b</sup>	PC/EG,15/85	1.2 x 10 <sup>-3</sup>			--

DMSO = dimethylsulfoxide; EG = ethylene glycol; PC = propylene carbonate; m = methanol

### Quantum Yields and Lifetimes

Absorbance (nm)	Emission (nm)	Quantum Yield (max = 1.0)	Solvent	Lifetime (ns)	References, Notes
	720		Ethanol	54±5ps	S-3
	720		Methanol	41±4ps	S-3
	700		PMMA	85±8ps	S-3

### REFERENCES:

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For a current list of biology, biological stain, or biochemistry references for LDS 751 from PubMed, click on the following link:  
[LDS 751](#)

**NOTES:**

CE = Conversion efficiency reported by the manufacturer or literature sources. See reference (numbers indicated under pump source column)

-- = not reported or not available