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COUMARIN 500

Synonym: 7-(ethylamino)-4-(trifluoromethyl)-2H-1-benzopyran-2-one

Catalog No.: 05000

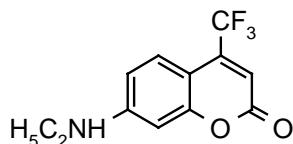
CAS No.: 52840-38-7

MW: 257.21

Chemical Formula: C₁₂H₁₀F₃NO₂

Appearance: Yellow needles

Structure:



Lasing Wavelength Max. (nm)	Range (nm)	Pump Source (nm)	Solvent	Concentration (molar)	Abs λ -max	FI λ -max
522	500-548	FL ⁶⁹	MeOH/H ₂ O,1/1		392 ^m	495 ^e
500		KrF(248) ⁴⁴	Ethanol	1 x 10 ⁻³		
487	459-536	XeCl(308) ¹¹⁴	p-Dioxane/MeOH,95/5	12.5 x 10 ⁻³		
506	478-568	XeCl(308) ²⁰⁴	Methanol	8.2 x 10 ⁻³ (osc), 7 x 10 ⁻³ (amp)		
507	480-564	XeCl(308) ¹¹⁴	Methanol	12.5 x 10 ⁻³		
510	485-555	XeCl(308) ¹¹⁰	Methanol	5 x 10 ⁻³		
500	480-554	XeF(351) ¹⁵⁴	Ethanol	1 x 10 ⁻²		
500	494-504	Nd:YAG(355) ⁵⁴	Ethanol	1 x 10 ⁻³		
504	481-550	Nd:YAG(355) ¹¹⁰	Methanol	1 x 10 ⁻³		
504	485-530	Nd:YAG(355) ¹⁰⁹	Ethanol	5 x 10 ⁻³		
507	483-559	Nd:YAG(355) ⁵³	Methanol	5.0 x 10 ⁻³ (osc), 2.0 x 10 ⁻³ (amp)		
508	484-551	Nd:YAG(355) ⁵⁷	Methanol	1.6 x 10 ⁻³ (osc), 3.7 x 10 ⁻⁴ (amp)		
470	447-523	N ₂ (337) ¹¹⁴	p-Dioxane	5.4 x 10 ⁻³		
470	455-515	N ₂ (337) ¹⁸³	p-Dioxane	25mg/20ml		
500		N ₂ (337) ¹⁵	Ethanol			
500	473-547	N ₂ (337) ⁵	Ethanol	1 x 10 ⁻²		
500	485-570	N ₂ (337) ¹⁸³	Methanol	48mg/20ml		
503	473-562	N ₂ (337) ¹¹⁴	Ethanol	5.4 x 10 ⁻³		

MeOH/H₂O=methanol/water, m=methanol, e=ethanol



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For a current list of biology, biological stain, or biochemistry references for Coumarin 500 from PubMed, click on the following link:

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