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IR 144

Synonym: 2-[2-[3-[[1,3-dihydro-1,1-dimethyl-3-(3-sulfopropyl)-2H-benz[e]indol-2-ylidene]ethylidene]-2-[4-(ethoxycarbonyl)-1-piperazinyl]-1-cyclopenten-1-yl]ethenyl]-1,1-dimethyl-3-(3-sulfopropyl)-1H-benz[e]indolium hydroxide, inner salt, compound with n,n-diethylethanamine(1:1)

Catalog No.: 08690

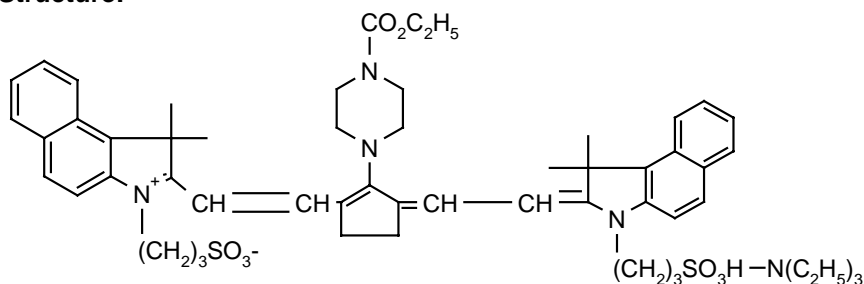
CAS No.: 54849-69-3

Chemical Formula: C₅₀H₅₈N₄O₈S₂·C₆H₁₅N

MW: 1008.36

Appearance: Dark maroon crystalline powder

Structure:



Lasing Wavelength Max. (nm)	Range (nm)	Pump Source (nm)	Solvent	Concentration (molar)	Abs λ-max	FI λ-max
880/949	800-870	FL→R640(660) ³ FL ⁹⁹	EG DMSO	1 x 10 ⁻⁴ 1 x 10 ⁻⁴	752 ^e 745 ^s	825 ^s
861	846-883	XeCl(308) ¹¹⁴	DMF	5 x 10 ⁻⁴		
850	840-864	Nd:YAG(532) ¹¹⁶	Ethanol/DMSO,94/6	7.7 x 10 ⁻⁵ (IR-144), 9.5 x 10 ⁻⁴ (R640)		
863	844-885	Nd:YAG→C720(700) ⁶⁶	DMSO	2 x 10 ⁻⁴		
869	Δλ(bb)=14	Nd:YAG(532) ¹⁰¹	DMSO	5 x 10 ⁻⁴		
874	Δλ(bb)=12	Nd:YAG(532) ¹⁰²	DMSO	5 x 10 ⁻⁴		
871	859-886	N ₂ (337) ¹¹¹	DMSO	8.3 x 10 ⁻⁴ (IR-144), 8 x 10 ⁻⁴ (DTTC)		
872	861-887	N ₂ (337) ¹¹¹	DMSO	1.3 x 10 ⁻³ (IR-144), 6 x 10 ⁻⁴ (DTTC)		
874	862-892	N ₂ (337) ¹¹⁴	DMSO	1.6 x 10 ⁻³		
877	866-890	N ₂ (337) ¹¹¹	DMSO	2.5 x 10 ⁻³		
	834-892	Kr(752,799) ⁷¹	EG/DMSO,3/1	3.9 x 10 ⁻⁴		
	835-890	Ruby(694) ³⁵	DMSO	2.2 x 10 ⁻⁴		

e = ethanol; s = DMSO



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