SETA BioMedicals
Fluorescent Tools for BioMedical Applications
http://www.setabiomedicals.com
e-mail: info@setabiomedicals.com

Product number: K6-1037
Product name: K37

General Data

Molecular Mass: 365.40

Solubility: toluene, alcohol, chloroform, DMF, DMSO

Insoluble: water

Storage: Store in absence of light at room temperature

Description

- Cholesterol and triglycerides sensitive fluorescent probe.

Applications

- Determination of cholesterol and triglycerides in biological liquids [1–5].

[1] SU Patent 1457386 (**1988**)

[2] SU Patent 1476384 (**1989**)

[3] Lapshin E.N. et al. Application of fluorescent probes in medical diagnosis. Part 2: A Fluorescent assay for atherogenic lipoproteins. Sov. Medical Reviews. Sect. B: Physicochemical Aspects of Medicine. **1991**, vol.3, part 1, p.p.37-101.

[4] Demyanov G.V. et al. Characteristics of molecular fluorescence of a lipid probe in human blood lipoproteins exposed to synchrotron radiation. Nuclear Instrumens and Methods in Physics Research, Sec. A, **1995**, vol.A-359, 342-344.

[5] Akimov A.V. et al. Nuclear Instruments and Methods in Physics Research, Sec. A, **1995**, vol. A-359, p.p.345-347.

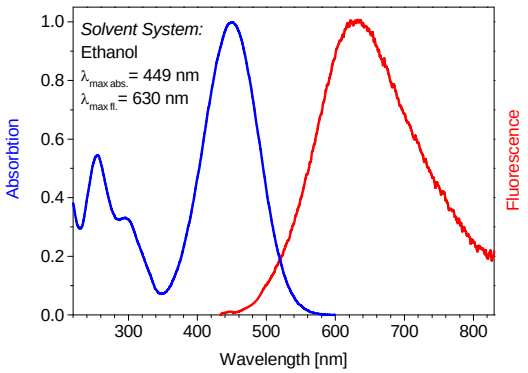
Advantages

- Highly fluorescent probe.
- Perfectly suited for excitation with the 405-nm, 436-nm and 470-nm diode lasers.
- Large Stokes' shift (> 100nm).

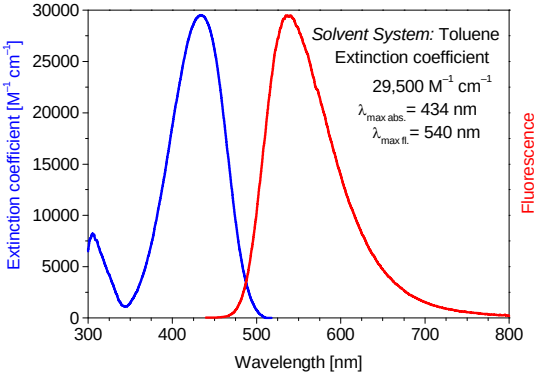
Spectral Data

Sample	Solvent System	Absorption max. [nm]	Extinction Coefficient [$M^{-1}cm^{-1}$]	Fluorescence[1] max. [nm]	Quantum Yield[1] [%]
Free dye	Ethanol	449		630	0.7
	Toluene	434	29,500	540	49
	Cholesterol in water			540	

[1] Excitation at 420 nm



Absorption and emission spectra of **K37** in ethanol

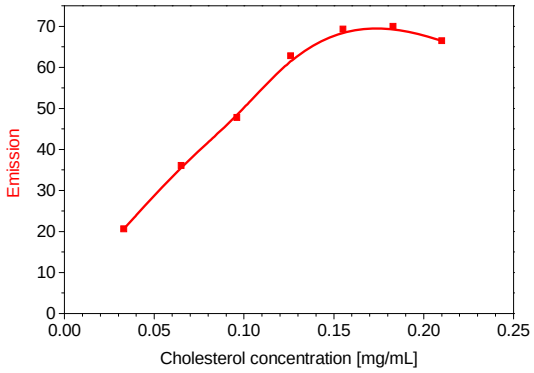


Absorption and emission spectra of **K37** in toluene

SETA BioMedicals
Fluorescent Tools for BioMedical Applications

http://www.setabiomedicals.com
e-mail: info@setabiomedicals.com

***Product number:* K6-1037**
***Product name:* K37**



Fluorescence intensity of **K37** *vs*. cholesterol concentration