

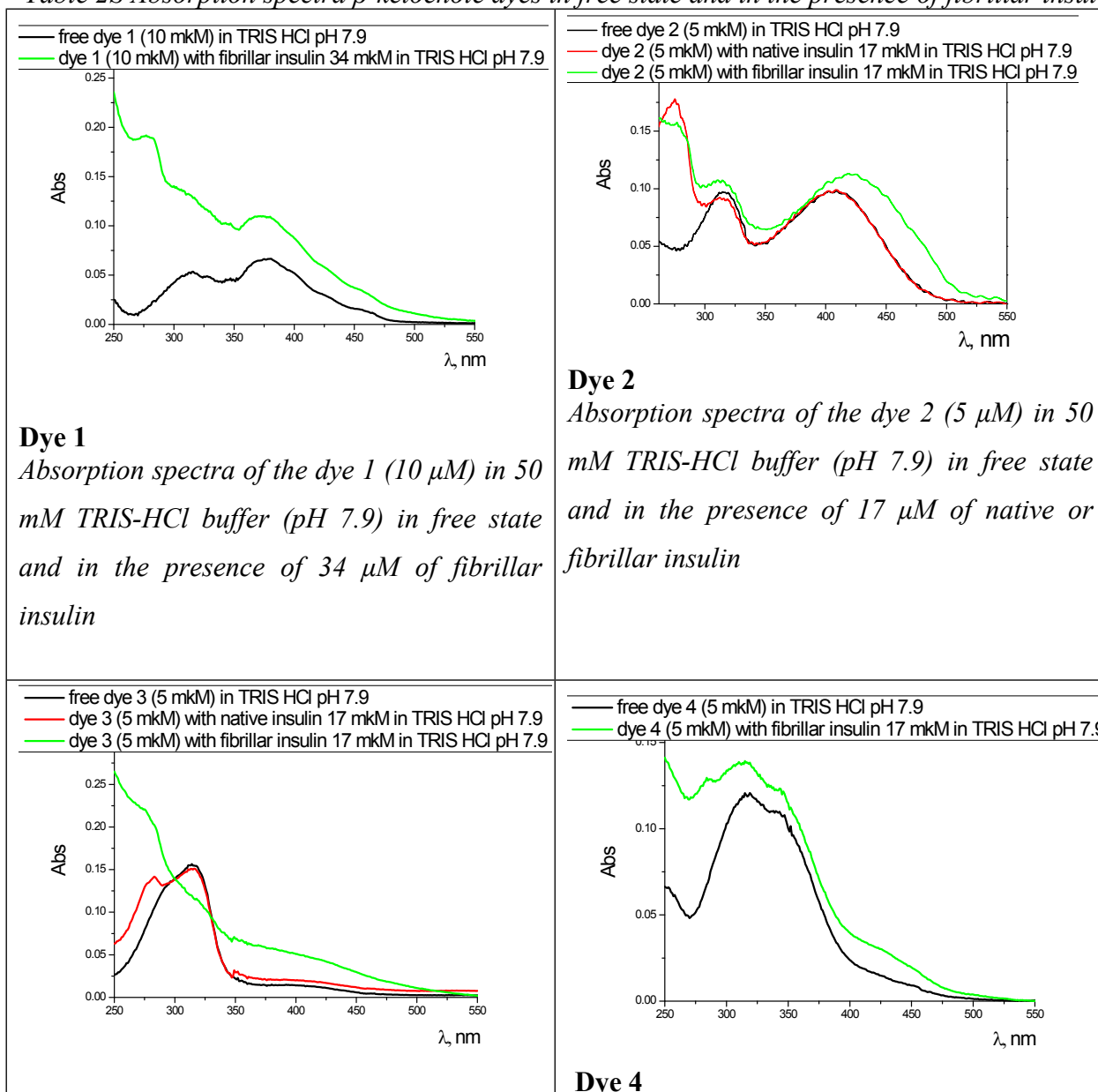
SUPPLEMENTARY MATERIALS

Table 1S Quantum yields of β -ketoenole dyes in the presence of native insulin

Name	with native insulin
	QY
1	0.085
2	<0.02*
3	<0.02*
4	0.036
5	0.027
6	0.037
7	<0.02*
8	<0.02*
9	<0.02*
10	<0.02*
Thioflavin T	<0.02*

*Measured values of quantum yield less than 2% is below threshold of the integrating sphere

Table 2S Absorption spectra β -ketoenole dyes in free state and in the presence of fibrillar insulin

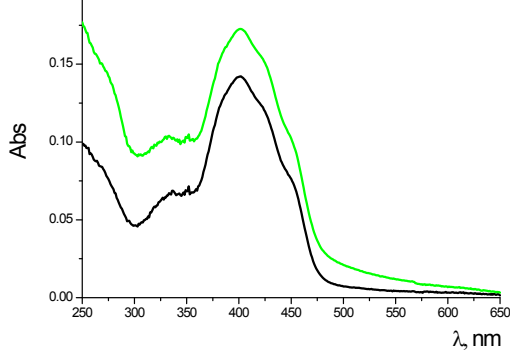


Dye 3

Absorption spectra of the dye 3 (5 μ M) in 50 mM TRIS-HCl buffer (pH 7.9) in free state and in the presence of 17 μ M of native or fibrillar insulin

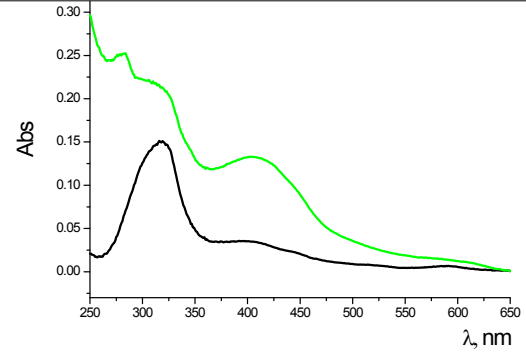
Absorption spectra of the dye 4 (5 μ M) in 50 mM TRIS-HCl buffer (pH 7.9) in free state and in the presence of 17 μ M of fibrillar insulin

— free dye 5 (5 mkM) in TRIS HCl pH 7.9
— dye 5 (5 mkM) with fibrillar insulin 17 mkM in TRIS HCl pH 7.9

**Dye 5**

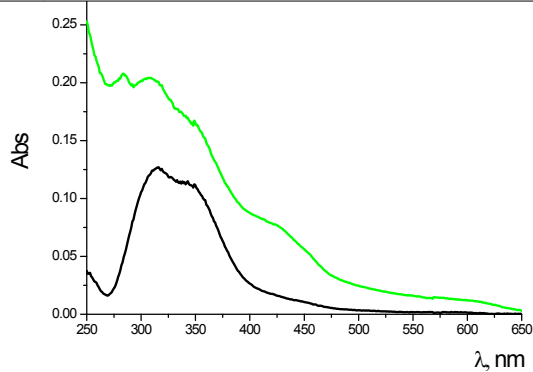
Absorption spectra of the dye 5 (5 μ M) in 50 mM TRIS-HCl buffer (pH 7.9) in free state and in the presence of 17 μ M of fibrillar insulin

— free dye 6 (5 mkM) in TRIS HCl pH 7.9
— dye 6 (5 mkM) with fibrillar insulin 17 mkM in TRIS HCl pH 7.9

**Dye 6**

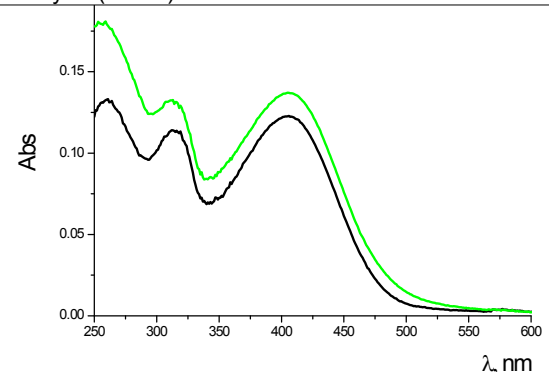
Absorption spectra of the dye 6 (5 μ M) in 50 mM TRIS-HCl buffer (pH 7.9) in free state and in the presence of 17 μ M of fibrillar insulin

— free dye 7 (5 mkM) in TRIS HCl pH 7.9
— dye 7 (5 mkM) with fibrillar insulin 17 mkM in TRIS HCl pH 7.9

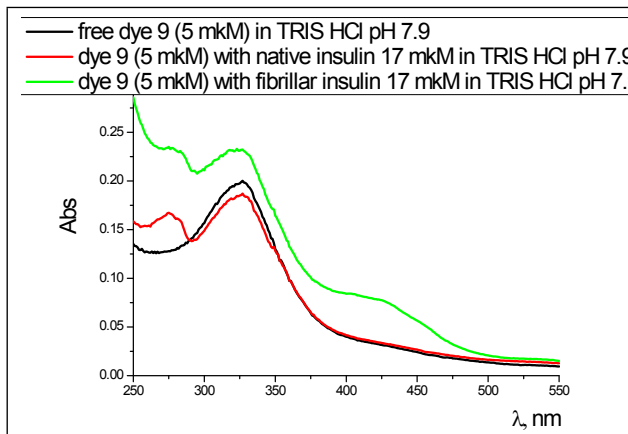
**Dye 7**

Absorption spectra of the dye 7 (5 μ M) in 50 mM TRIS-HCl buffer (pH 7.9) in free state and in the presence of 17 μ M of fibrillar insulin

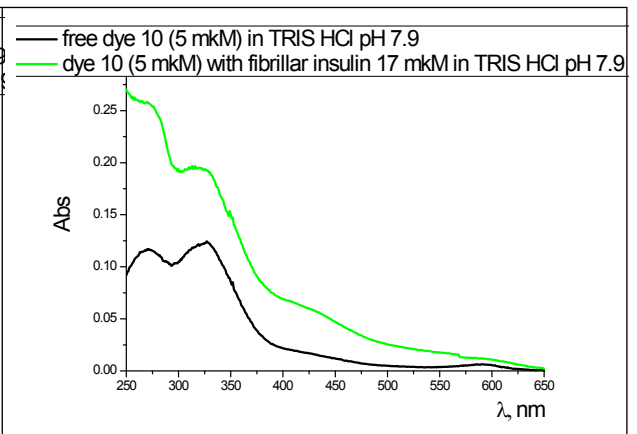
— free dye 8 (5 mkM) in TRIS HCl pH 7.9
— dye 8 (5 mkM) with fibrillar insulin 17 mkM in TRIS HCl pH 7.9

**Dye 8**

Absorption spectra of the dye 8 (5 μ M) in 50 mM TRIS-HCl buffer (pH 7.9) in free state and in the presence of 17 μ M of fibrillar insulin



Dye 9
Absorption spectra of the dye 9 (5 μM) in 50 mM TRIS-HCl buffer (pH 7.9) in free state and in the presence of 17 μM of native or fibrillar insulin



Dye 10
Absorption spectra of the dye 10 (5 μM) in 50 mM TRIS-HCl buffer (pH 7.9) in free state and in the presence of 17 μM of fibrillar insulin