

**Table 3** Relevant examples of aptamer molecular beacons application targets, signal recorded and concentration range

Target	Technique	Measured signal	Concentration range	Reference	
Platelet-derived growth factor	Fluorescence quenching	DABCYL–fluorescein	40 nM	[122]	
Tat-HIV		DABCYL–fluorescein	10 nM	[119]	
Thrombin		DABCYL–fluorescein	20 nM	[129]	
Thrombin		DABCYL–6-FAM	0.1 nM	[130]	
Thrombin (K <sup>+</sup> interference)		Coumarin–6-FAM	(K <sup>+</sup> 0.5 mM tolerance)	[78]	
Cocaine		DABCYL–fluorescein	1 μM	[131]	
Theophylline		DABCYL–fluorescein	10 μM	[132]	
Thrombin		FRET	Coumarin–fluorescein	0.5 nM	[130]

*FRET* fluorescence resonance energy transfer, *DABCYL* 4-(dimethylaminoazo)benzene-4-carboxylic acid