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### Synthesis of Some Novel Organic Nitrates and Comparative in Vitro Study of Their Vasodilator Profile

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## SUPPORTING INFORMATION

### Synthesis of some novel organic nitrates and comparative in vitro study of their vasodilator profile.

*Konstantin Chegaev,<sup>1</sup> Loretta Lazzarato,<sup>1</sup> Paolo Marcarino,<sup>1</sup> Antonella Di Stilo,<sup>1</sup> Roberta  
Fruttero,<sup>1</sup> Nicolas Vanthuyne,<sup>2</sup> Christian Roussel,<sup>2</sup> and Alberto Gasco\*<sup>1</sup>*

<sup>1</sup> Dipartimento di Scienza e Tecnologia del Farmaco, Università degli Studi di Torino, Via Pietro  
Giuria 9, 10125 Torino, Italy

<sup>2</sup> UMR ISM2, Chirosciences Université Paul Cézanne Aix-Marseille III Case A62, 13397  
Marseille, CEDEX 20, France

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## Elemental analyses

Compound	Formula	Calculated			Found		
		%C	%H	%N	%C	%H	%N
<b>5a</b>	$C_{10}H_{11}N_3O_9$	37.86	3.50	13.25	37.86	3.49	13.20
<b>5b</b>	$C_{10}H_{11}N_3O_9$	37.86	3.50	13.25	37.78	3.48	13.22
<b>7</b>	$C_{10}H_{12}N_2O_5$	46.89	4.72	10.93	46.58	4.75	11.17

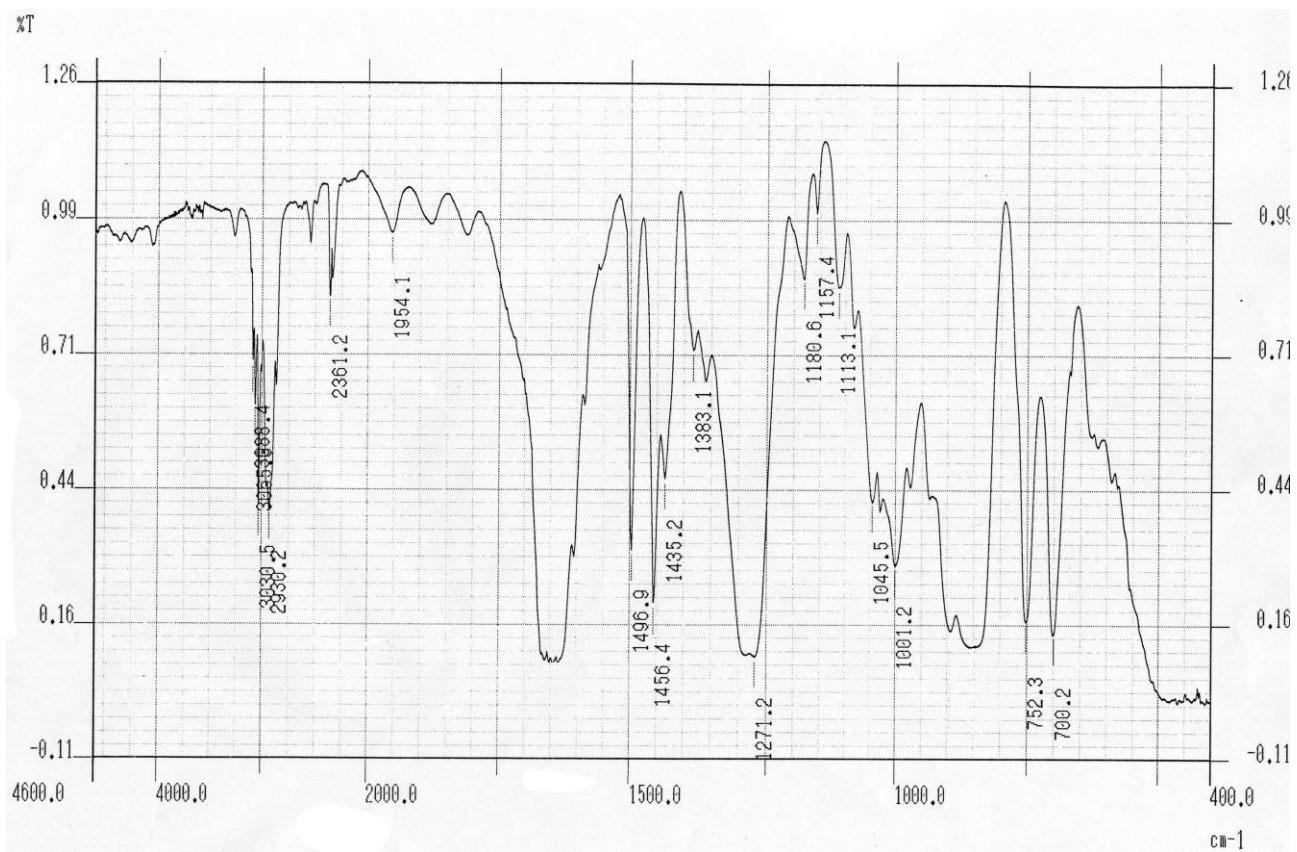


Figure S1. IR spectra of rac 4-phenylbutane-1,2-diyl dinitrate (7).

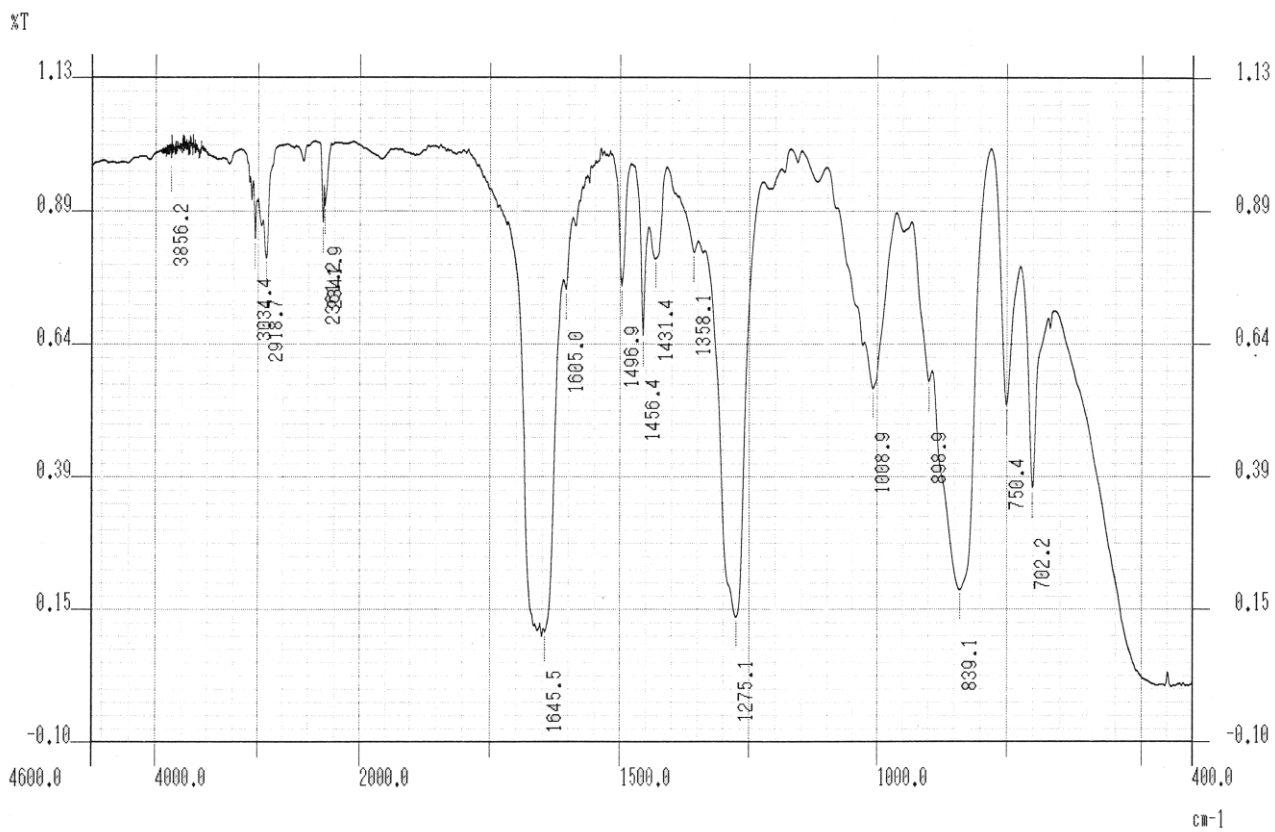


Figure S2. IR spectra of rac erythro-4-phenylbutane-1,2,3-triyl trinitrate (5a).

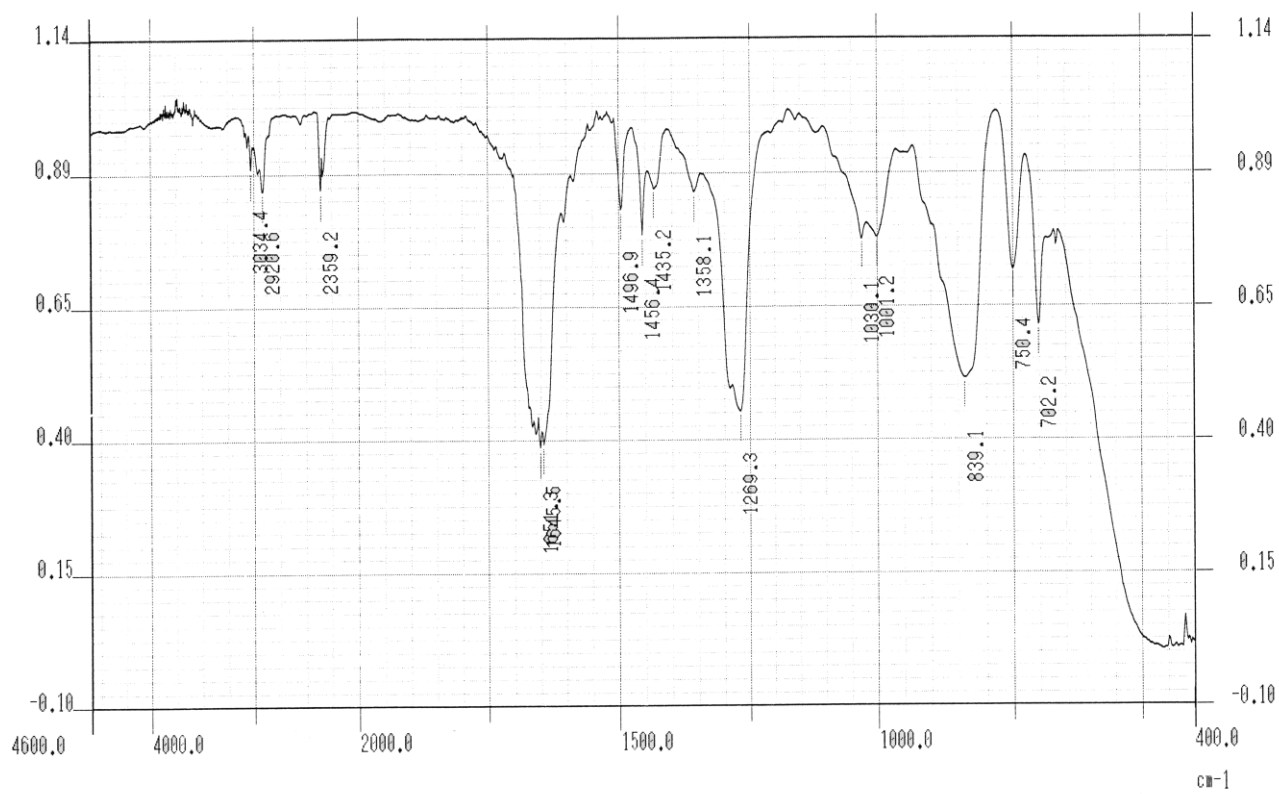


Figure S3. IR spectra of rac-*treo*-4-phenylbutane-1,2,3-triyl trinitrate (**5b**).

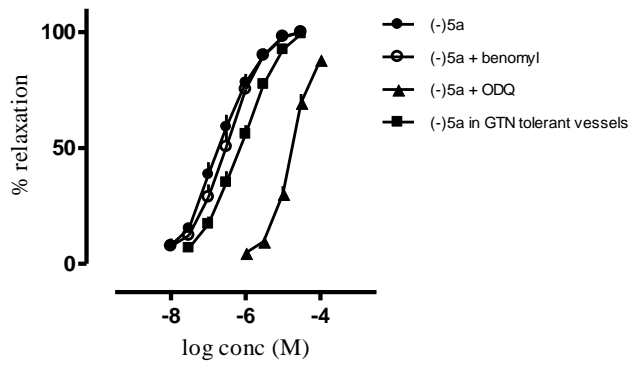


Figure S4. Concentration-response curves of (-)5a in the absence and in the presence of inhibitors (1  $\mu$ M benomyl or 1  $\mu$ M ODQ) or in GTN tolerant vessels.

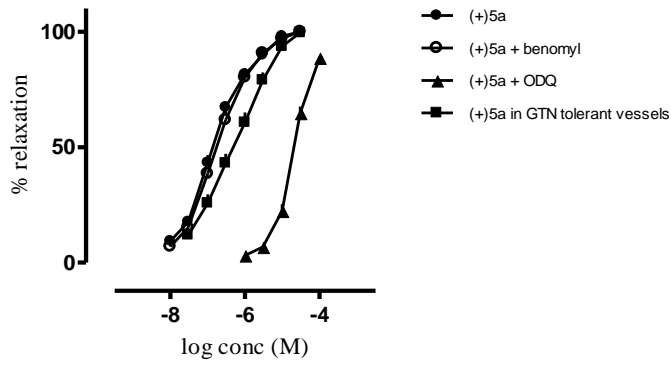


Figure S5. Concentration-response curves of (+)5a in the absence and in the presence of inhibitors (1  $\mu$ M benomyl or 1  $\mu$ M ODQ) or in GTN tolerant vessels.

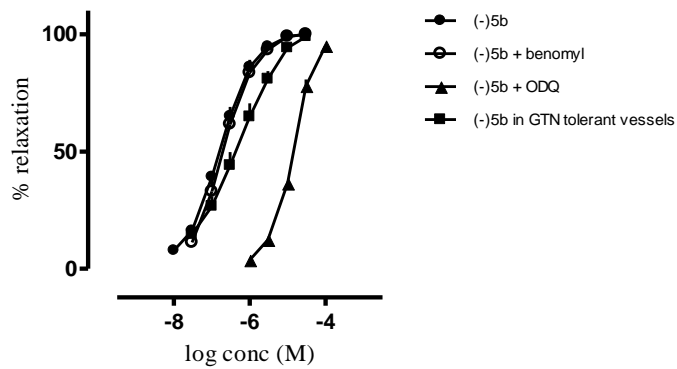


Figure S6. Concentration-response curves of (-)5b in the absence and in the presence of inhibitors (1  $\mu$ M benomyl or 1  $\mu$ M ODQ) or in GTN tolerant vessels.

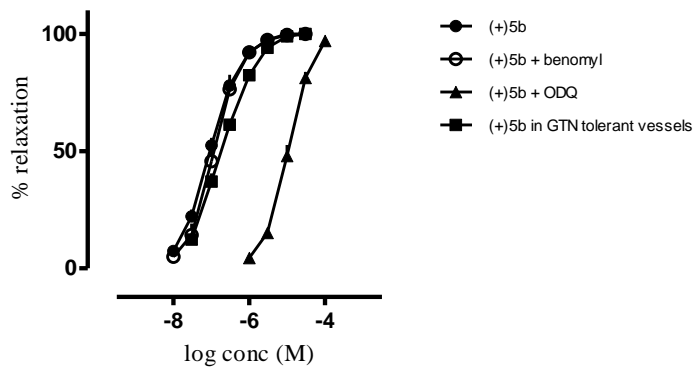


Figure S7. Concentration-response curves of (+)5b in the absence and in the presence of inhibitors (1  $\mu$ M benomyl or 1  $\mu$ M ODQ) or in GTN tolerant vessels.

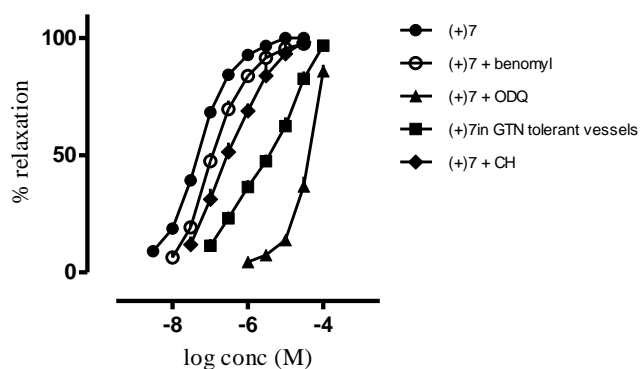


Figure S8. Concentration-response curves of (+)7 in the absence and in the presence of inhibitors (1  $\mu$ M benomyl, 1mM chloral hydrate (CH) or 1  $\mu$ M ODQ) or in GTN tolerant vessels

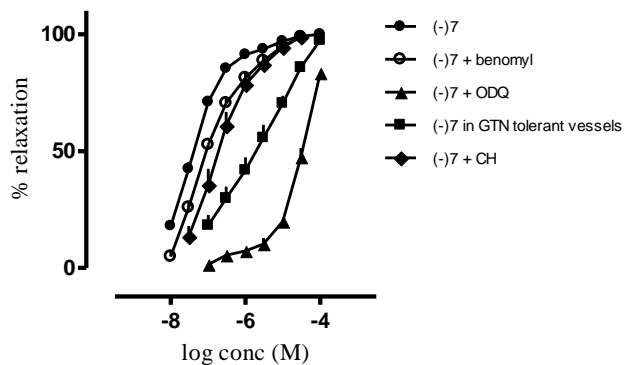


Figure S9. Concentration-response curves of (-)7 in the absence and in the presence of inhibitors (1  $\mu$ M benomyl, 1mM chloral hydrate (CH) or 1  $\mu$ M ODQ) or in GTN tolerant vessels



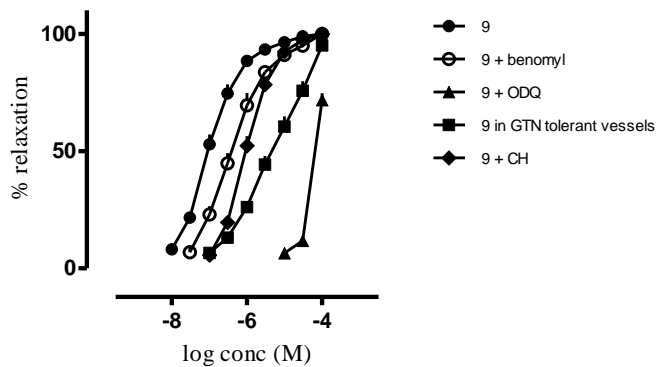


Figure S10. Concentration-response curves of **9** in the absence and in the presence of inhibitors (1  $\mu$ M benomyl, 1mM chloral hydrate (CH) or 1  $\mu$ M ODQ) or in GTN tolerant vessels

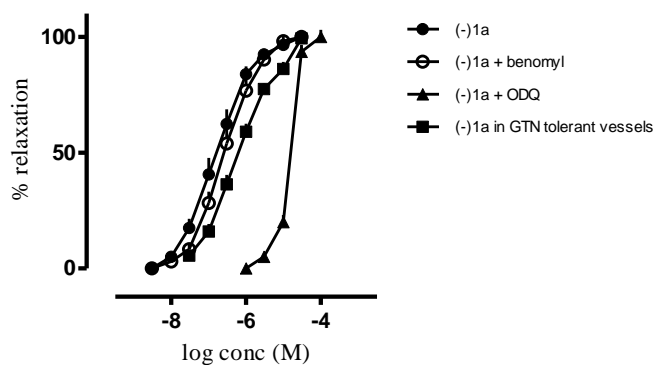


Figure S11. Concentration-response curves of **(-)1a** in the absence and in the presence of inhibitors (1  $\mu$ M benomyl or 1  $\mu$ M ODQ) or in GTN tolerant vessels

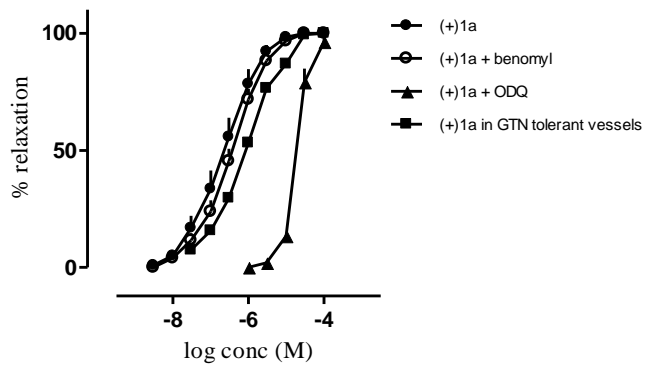


Figure S12. Concentration-response curves of **(+)1a** in the absence and in the presence of inhibitors (1  $\mu$ M benomyl or 1  $\mu$ M ODQ) or in GTN tolerant vessels

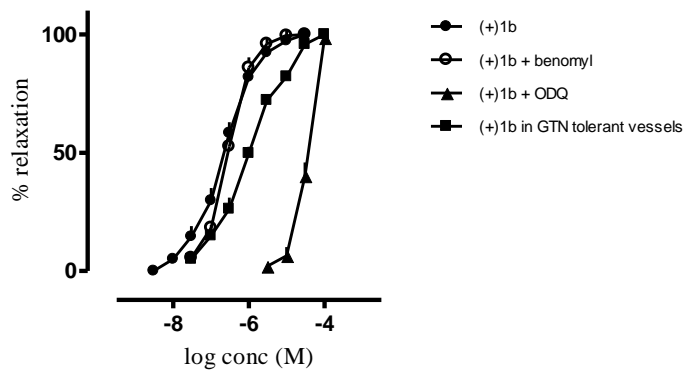


Figure S13. Concentration-response curves of (+)1b in the absence and in the presence of inhibitors (1  $\mu$ M benomyl or 1  $\mu$ M ODQ) or in GTN tolerant vessels

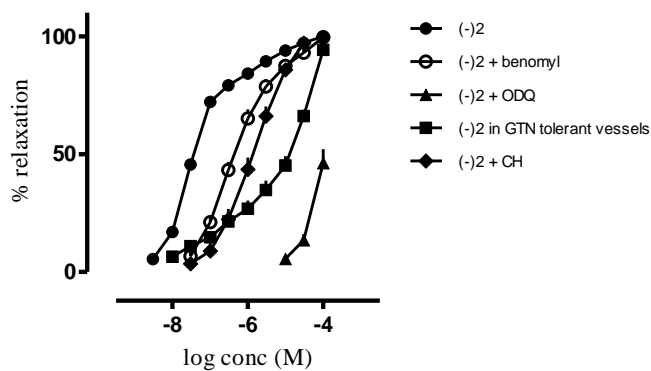


Figure S14. Concentration-response curves of (-)2 in the absence and in the presence of inhibitors (1  $\mu$ M benomyl, 1mM chloral hydrate (CH) or 1  $\mu$ M ODQ) or in GTN tolerant vessels

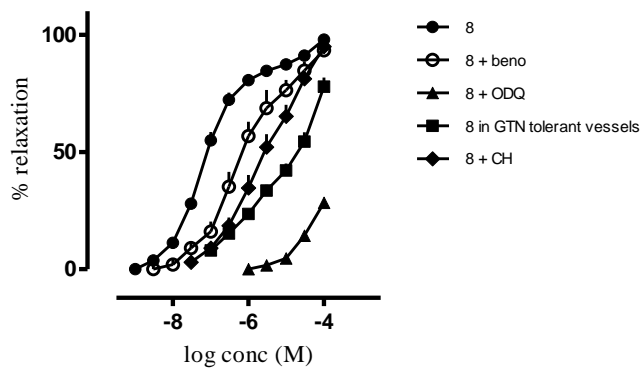


Figure S15. Concentration-response curves of 8 in the absence and in the presence of inhibitors (1  $\mu$ M benomyl, 1mM chloral hydrate (CH) or 1  $\mu$ M ODQ) or in GTN tolerant vessels