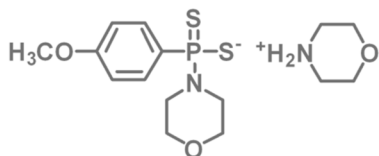


# Hydrogen Sulfide Donor

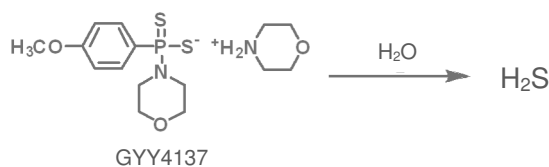
-SulfoBiotics- GYY4137 [Code#: SB06-10] 10 mg

## Slow-Releasing H<sub>2</sub>S Donor



GY4137

GY4137 is one of the synthetic hydrogen sulfide donors derived from Lawson's reagent. It is water-soluble and releases H<sub>2</sub>S very slowly by hydrolysis in aqueous solution. GYY4137 has shown distinct cellular effects such as anti-hypertensive, anti-atherosclerotic, and anti-tumor activities in several reports 1-3).



## REFERENCE

- 1) L. Li, M. Whiteman, Y. Y. Guan, K. L. Neo, Y. Cheng, S. W. Lee, Y. Zhao, R. Baskar, C-H. Tang, and P. K. Moore, *Circulation*, **2008**, *117*, 2351.
- 2) Z. Liu, Y. Han, L. Li, H. Li, G. Meng, X. Li, M. Shirhan, M. T. Peh, L. Xie, S. Zhou, X. Wang, Q. Chen, W. Dai, C-H. Tang, S. Pan, P. K. Moore, and Y. Ji, *Br J Pharmacol.*, **2013**, *169*, 1795.
- 3) Z. W. Lee, J. Zhou, C-S Chen, Y. Zhao, C-H. Tan, L Li, P. K. Moore and L-W. Deng, *PLoS One.*, **2011**, *6*, e21077.

## CHARACTERISTICS OF H<sub>2</sub>S DONOR

Donor Name	Main Structure	Releasing Mechanism	Releasing Area	Releasing profile
Na <sub>2</sub> S	inorganic	-	extracellular	immediate
GY4137	Lawson's reagent	Hydrolysis	extracellular	slowly and sustainably
H <sub>2</sub> S donor 5a	<i>N</i> -(Benzoylthio)benzamide	Reaction with GSH/Cys	intracellular	GSH/Cys conc. dependent
H <sub>2</sub> S donor 8l	<i>N</i> -Acetyl-DL-penicillamine	Reaction with GSH/Cys	intracellular	GSH/Cys conc. dependent
H <sub>2</sub> S donor 8o	<i>N</i> -Acetyl-DL-penicillamine	Reaction with GSH/Cys	intracellular	GSH/Cys conc. dependent



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