

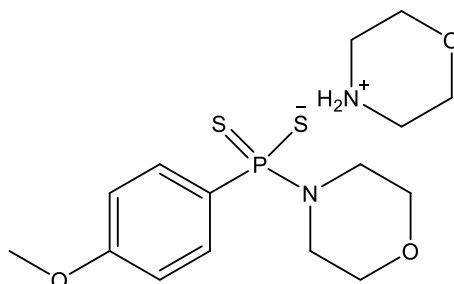
**Catalog # 10-4507**

**GY4137**

CAS# 106740-09-4

(4-Methoxyphenyl)-morpholin-4-yl-sulfanyl-sulfanylidene-λ<sup>5</sup>-phosphane morpholine; Morpholine (4-methoxyphenyl)(morpholino)phosphinodithioate

Lot # FBA8006



GY4137 is a water soluble hydrogen sulfide slow-releasing molecule.<sup>1</sup> Rate of release at pH 7.4 and 37°C was  $4.17 \pm 0.5$  nmol/25 min. Release rate is both pH and temperature dependent. It displays vasodilatory, anti-hypertensive, cardioprotective, anti-inflammatory, and anticancer effects.<sup>2</sup>

- 1) Li *et al.* (2008), *Characterization of a novel, water-soluble hydrogen sulfide-releasing molecules (GY4137): new insights into the biology of hydrogen sulfide*; *Circulation* **117** 2351
- 2) Nin *et al.* (2020), *Biological Effects of Morpholin-4-yl 4-Methoxyphenyl(Morpholino)Phosphinodithioate and Other Phosphorothioate-Based Hydrogen Sulfide Donors*; *Antioxid. Redox. Signal.* **32** 145

**PHYSICAL DATA**

Molecular Weight:	376.47
Molecular Formula:	C <sub>15</sub> H <sub>25</sub> N <sub>2</sub> O <sub>3</sub> PS <sub>2</sub>
Purity:	99% NMR
	NMR: (Conforms)
Solubility:	Soluble in DMSO (>25 mg/ml); Water (25 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Make solutions fresh daily – GY4137 starts to react immediately with water.

**Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.**