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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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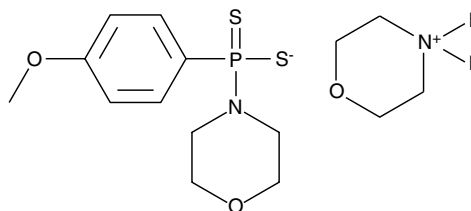
Product Information



GY 4137

Item No. 13345

CAS Registry No.: 106740-09-4
Formal Name: (*p*-methoxyphenyl)morpholino-phosphinodithioic acid
MF: C₁₁H₁₆NO₂PS₂ • C₄H₁₀NO
FW: 377.5
Purity: ≥95%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid



Laboratory Procedures

For long term storage, we suggest that GY 4137 be stored as supplied at -20°C. It should be stable for at least two years.

GY 4137 is supplied as a crystalline solid. A stock solution may be made by dissolving the GY 4137 in an organic solvent purged with an inert gas. GY 4137 is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of GY 4137 in these solvents is approximately 15 mg/ml.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of GY 4137 can be prepared by directly dissolving the crystalline compound in aqueous buffers. The solubility of GY 4137 in PBS, pH 7.2, is approximately 3 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Hydrogen sulfide (H₂S) is a gaseous mediator which, like nitric oxide (NO), has numerous profound actions in mammalian physiology. GY 4137 is a water-soluble, slow-releasing H₂S donor.¹ When given intravenously, it demonstrates vasodilator and anti-hypertensive activity in rats, in either the acute (L-NAME-induced) or chronic (spontaneously hypertensive) hypertension models.¹ Intravenous GY 4137 also protects against endotoxic shock in rats, inhibiting tumor necrosis factor-α, interleukin (IL)-1β, and IL-6 production and reducing NF-κB activation, iNOS and cyclooxygenase-2 expression, and NO and prostaglandin E₂ generation.²

References

1. Li, L., Whiteman, M., Guan, Y.Y., *et al.* Characterization of a novel, water-soluble hydrogen sulfide releasing molecule (GY 4137): New insights into the biology of hydrogen sulfide. *Circulation* **117**, 2351-2360 (2008).
2. Li, L., Salto-Tellez, M., Tan, C.-H., *et al.* GY 4137, a novel hydrogen sulfide-releasing molecule, protects against endotoxic shock in the rat. *Free Radic. Biol. Med.* **47**, 103-113 (2009).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/13345

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY; NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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Cayman will carry out its delivery obligations with due care and skill. Thus, in no event will Cayman have any obligation or liability, whether in tort (including negligence) or in contract, for any direct, indirect, incidental or consequential damages, even if Cayman is informed about their possible existence.

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Said refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give said notice within thirty (30) days shall constitute a waiver by Buyer of all claims hereunder with respect to said material.

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