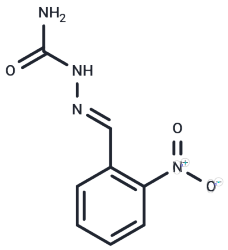
Data Sheet (Cat.No.T39065)

TargetMol

2-Nitrobenzaldehyde Semicarbazone

Chemical Properties



CAS No. : 16004-43-6

Formula: C8H8N4O3

Molecular Weight: 208.17

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	2-Nitrobenzaldehyde Semicarbazone is a metabolite marker for the detection of Nitrofurazone, a highly restricted antibiotic. This compound, derived from Semicarbazide, exhibits significant potential in identifying the presence of Nitrofurazone.
Targets(IC50)	Others,Antibiotic
In vitro	2-Nitrobenzaldehyde Semicarbazone serves as a marker metabolite for identifying Nitrofurazone (NFZ) residues in aquacultured crab and shrimp [2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.8038 mL	24.0188 mL	48.0377 mL
5 mM	0.9608 mL	4.8038 mL	9.6075 mL
10 mM	0.4804 mL	2.4019 mL	4.8038 mL
50 mM	0.0961 mL	0.4804 mL	0.9608 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Abernethy GA, et, al. Generation of semicarbazide from natural azine development in foods, followed by reaction with urea compounds. Food Addit Contam Part A Chem Anal Control Expo Risk Assess. 2015;32(9):1416-30.
Zhang S, et, al. A selective biomarker for confirming nitrofurazone residues in crab and shrimp using ultra-performance liquid chromatography-tandem mass spectrometry. Anal Bioanal Chem. 2015 Dec;407(30):8971-7.

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