

Product Data Sheet

Product Name: 2-NP-AHD

Cat. No.: GC52039

Chemical Properties

Cas. No. 623145-57-3

SMILES O=C(N1)N(/N=C/C2=C([N+])([O-])=O)C=CC=C2)CC1=O

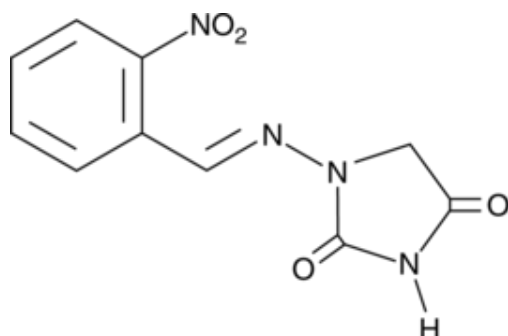
Formula C₁₀H₈N₄O₄ M.Wt 248.2

Solubility DMF: insol, DMSO: 1 mg/ml, Ethanol: Storage -20°C
insol, PBS (pH 7.2): insol

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

2-NP-AHD is a nitrophenyl-labeled derivative of 1-aminohydantoin (AHD), a metabolite of the nitrofurantoin antibiotic nitrofurantoin.¹ It has been used in immunoassays for the detection of AHD in honey.

1. Li, Z., Li, Z., and Xu, D. Simultaneous detection of four nitrofurantoin metabolites in honey by using a visualized microarray screen assay. *Food Chem.* 221:1813-1821 (2017)

Caution: Product has not been fully validated for medical applications. For research use only.

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