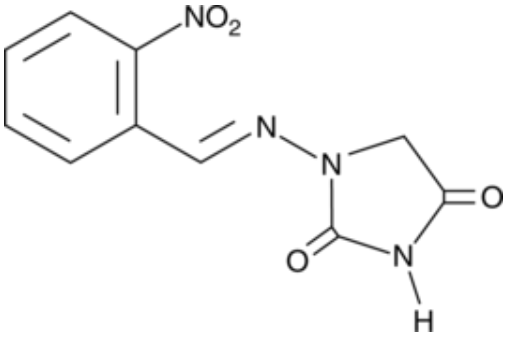
Product Data Sheet

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: insol,PBS (pH 7.2): insol	Storage	-20°C
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 nitrofuran 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 nitrofuran metabolites in honey by using a visualized microarray screen assayFood Chem.2211813-1821(2017)

Caution: Product has not been fully validated for medical applications. For research use only.
Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA