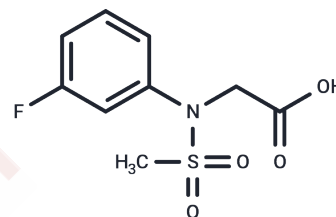


## Ampyrone

## Chemical Properties

CAS No. :	83-07-8
Formula:	C <sub>11</sub> H <sub>13</sub> N <sub>3</sub> O
Molecular Weight:	203.24
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	Ampyrone (4-Aminoantipyrine) is a reagent for glucose determination in the presence of peroxidase and phenol.
Targets(IC50)	COX, Drug Metabolite
In vitro	The level of glutathione(GSH) in single erythrocytes is impacted slightly at low AAP(4-aminoantipyrine) concentrations probably due to the protection of glutathione reductase. When AAP concentration further increases, AAP has a significant influence on GSH[2].
In vivo	4-aminoantipyrine (4-AA) is not genotoxic and mutagenic in vivo, it can interfere with DNA damaging agents biological activities and may reduce the effectiveness of DNA damage-based chemotherapy[3].
Cell Research	Erythrocytes in PBS are incubated for 2 h at ambient temperature (without mixing) with AAP in concentrations from $1 \times 10^{-6}$ mol/L to $1 \times 10^{-3}$ mol/L. Sample of erythrocytes without AAP is used as control. After the exposure of AAP, erythrocytes are washed with borate buffer (pH 9.0) 2 times by centrifuging and determined for GSH. (Only for Reference)

## Solubility Information

Solubility	Ethanol: 40 mg/mL (196.81 mM), Sonication is recommended. H <sub>2</sub> O: 37 mg/mL (182.05 mM), Sonication is recommended. DMSO: 74.29 mg/mL (365.53 mM) ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	4.9203 mL	24.6015 mL	49.2029 mL
5 mM	0.9841 mL	4.9203 mL	9.8406 mL
10 mM	0.492 mL	2.4601 mL	4.9203 mL
50 mM	0.0984 mL	0.492 mL	0.9841 mL

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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

Vinagre AM, et al. Braz J Med Biol Res. 2016, 49(3).

Teng Y, et al. J Hazard Mater. 2011, 192(3):1766-1771.

Berno CR, et al. Mutat Res Genet Toxicol Environ Mutagen. 2016, 805:19-24.

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