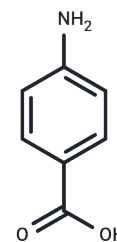


## 4-aminobenzoic acid

## Chemical Properties

CAS No. :	150-13-0
Formula:	C <sub>7</sub> H <sub>7</sub> NO <sub>2</sub>
Molecular Weight:	137.14
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	4-aminobenzoic acid is an organic acid with UV-absorbing and antifibrotic properties. When exposed to light, 4-aminobenzoic acid absorbs UV light and releases excess energy through a photochemical reaction, which may cause DNA damage. 4-aminobenzoic acid also increases oxygen uptake at the tissue level and may enhance monoamine oxidase (MAO) activity to promote serotonin degradation, which in excess may lead to fibrotic changes.
Targets(IC50)	Endogenous Metabolite, Antibacterial, ROS
In vivo	Plants produce PABA in their chloroplasts and store it as a glucose ester (PABA-Glc) in their tissues. Humans lack the enzymes to convert PABA to folate, so require folate from dietary sources such as green leafy vegetables. In humans, most people have colon bacteria that generate PABA[1].

## Solubility Information

Solubility	DMSO: 250 mg/mL (1822.95 mM), Sonication is recommended. H <sub>2</sub> O: < 1 mg/mL (insoluble or slightly soluble), Ethanol: 26 mg/mL (189.59 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (14.58 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	7.2918 mL	36.4591 mL	72.9182 mL
5 mM	1.4584 mL	7.2918 mL	14.5836 mL
10 mM	0.7292 mL	3.6459 mL	7.2918 mL
50 mM	0.1458 mL	0.7292 mL	1.4584 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

MedlinePlus. Para-aminobenzoic acid. Update Date 10/9/2015.

Benali-Cherif R, et al. The structural properties of a noncentrosymmetric polymorph of 4-aminobenzoic acid. Acta Crystallogr C Struct Chem. 2014 Mar;70(Pt 3):323-5.

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