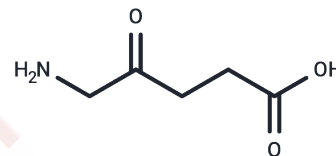


## 5-Aminolevulinic acid

## Chemical Properties

CAS No. :	106-60-5
Formula:	C <sub>5</sub> H <sub>9</sub> NO <sub>3</sub>
Molecular Weight:	131.13
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	5-Aminolevulinic acid is an intermediate in heme synthesis which is the first compound in the porphyrin synthesis pathway. It is a photosensitizing agent, an antineoplastic agent and a prodrug. It can also be used (in the form of the hydrochloride salt) in combination with blue light illumination for the treatment of minimally to moderately thick actinic keratosis of the face or scalp.
Targets(IC50)	Others, Endogenous Metabolite
In vitro	5-Aminolevulinic acid enhances the immune response of <i>L. vannamei</i> to <i>V. parahaemolyticus</i> . Which upregulates immune- and defense-related genes, and enhances aerobic energy metabolism, respectively[1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	7.626 mL	38.1301 mL	76.2602 mL
5 mM	1.5252 mL	7.626 mL	15.252 mL
10 mM	0.7626 mL	3.813 mL	7.626 mL
50 mM	0.1525 mL	0.7626 mL	1.5252 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

Pedrosa-Gerasmio IR, et al. Effects of 5-Aminolevulinic Acid on Gene Expression, Immunity, and ATP Levels in Pacific White Shrimp, *Litopenaeus vannamei*. Mar Biotechnol (NY). 2018 Aug 25.

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