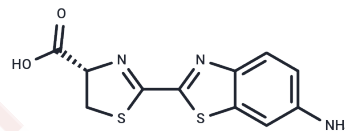


## Aminoluciferin

## Chemical Properties

CAS No. :	161055-47-6
Formula:	C <sub>11</sub> H <sub>9</sub> N <sub>3</sub> O <sub>2</sub> S <sub>2</sub>
Molecular Weight:	279.34
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Aminoluciferin (6-Amino-D-luciferin) is a substrate of luciferase (Luc).
Targets(IC50)	Others
In vitro	Compared with the fluorescent property of the Aminoluciferin, the caged group of probe 3 was removed upon reaction with ROS and free Aminoluciferin was released, in the meanwhile the maximum emission peak experienced a red shift from 450 to 525 nm. [1]

## Solubility Information

Solubility	DMSO: 10 mg/mL (35.8 mM), Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5799 mL	17.8993 mL	35.7987 mL
5 mM	0.716 mL	3.5799 mL	7.1597 mL
10 mM	0.358 mL	1.7899 mL	3.5799 mL
50 mM	0.0716 mL	0.358 mL	0.716 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

Wu W, et al. Bioluminescent probe for hydrogen peroxide imaging in vitro and in vivo. *Anal Chem.* 2014 Oct 7;86(19):9800-6.

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Aron AT, et al. In vivo bioluminescence imaging of labile iron accumulation in a murine model of *Acinetobacter baumannii* infection. *Proc Natl Acad Sci U S A.* 2017 Nov 28;114(48):12669-12674.

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