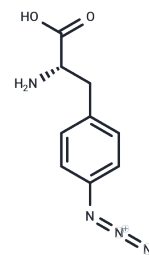


## 4-Azido-L-phenylalanine

## Chemical Properties

CAS No. :	33173-53-4
Formula:	C <sub>9</sub> H <sub>10</sub> N <sub>4</sub> O <sub>2</sub>
Molecular Weight:	206.2
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	4-Azido-L-phenylalanine (p-Azido-L-phenylalanine) is an amino acid derivative that acts as a photoaffinity marker and can be used to detect localized protein environments.
Targets(IC50)	Others
In vitro	Within the cell-free protein synthesis (CFPS) method, the CFPS solutions accumulate modified soluble super-folder green fluorescent protein (sfGFP) at concentrations ranging from 0.9 to 1.7 mg/mL, including either 4-Azido-L-phenylalanine or p-propargyloxy-L-phenylalanine (pPaF).[1]

## Solubility Information

Solubility	H <sub>2</sub> O: 22.5 mg/mL (109.12 mM), when pH is adjusted to 11 with NaOH. Sonication is recommended. DMSO: 5 mg/mL (24.25 mM), pH is adjusted to 3 with HCl. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.8497 mL	24.2483 mL	48.4966 mL
5 mM	0.9699 mL	4.8497 mL	9.6993 mL
10 mM	0.485 mL	2.4248 mL	4.8497 mL
50 mM	0.097 mL	0.485 mL	0.9699 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

Albayrak C, et al. Cell-free co-production of an orthogonal transfer RNA activates efficient site-specific non-natural amino acid incorporation. *Nucleic Acids Res.* 2013 Jun;41(11):5949-63.

Zhang J, et al. Identifying and Modulating Accidental Fermi Resonance: 2D IR and DFT Study of 4-Azido-L-phenylalanine. *J Phys Chem B.* 2018;122(34):8122-813

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