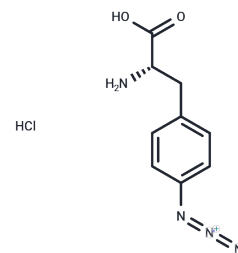


4-Azido-L-phenylalanine hydrochloride

Chemical Properties

CAS No. :	34670-43-4
Formula:	C ₉ H ₁₁ ClN ₄ O ₂
Molecular Weight:	242.66
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-Azido-L-phenylalanine hydrochloride (p-Azido-L-phenylalanine hydrochloride) is an unnatural amino acid used as an effective vibrational reporter of local protein environments.
Targets(IC50)	Others
In vitro	Using the cell-free protein synthesis (CFPS) method, 0.9-1.7 mg/mL of modified soluble super-folder green fluorescent protein (sfGFP) containing either 4-Azido-L-phenylalanine or p-propargyloxy-l-phenylalanine (pPaF) accumulate in the CFPS solutions.

Solubility Information

Solubility	DMSO: 103.3 mg/mL (425.7 mM), Sonication is recommended. H ₂ O: 4.55 mg/mL (18.75 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: 4 mg/mL (16.48 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

	1mg	5mg	10mg
1 mM	4.121 mL	20.605 mL	41.2099 mL
5 mM	0.8242 mL	4.121 mL	8.242 mL
10 mM	0.4121 mL	2.0605 mL	4.121 mL
50 mM	0.0824 mL	0.4121 mL	0.8242 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.

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