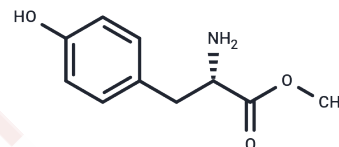


## L-Tyrosine methyl ester

## Chemical Properties

CAS No. :	1080-06-4
Formula:	C <sub>10</sub> H <sub>13</sub> NO <sub>3</sub>
Molecular Weight:	195.22
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	L-Tyrosine methyl ester is a tyrosine derivative and endogenous metabolite, applicable for encapsulating carbon-dot fluorescent probes in metal-free thiol-based assays.
Targets(IC50)	Others,Endogenous Metabolite,Tyrosinase

## Solubility Information

Solubility	DMSO: 80 mg/mL (409.79 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: 3.3 mg/mL (16.9 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	5.1224 mL	25.6121 mL	51.2243 mL
5 mM	1.0245 mL	5.1224 mL	10.2449 mL
10 mM	0.5122 mL	2.5612 mL	5.1224 mL
50 mM	0.1024 mL	0.5122 mL	1.0245 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

B.Korbélya, et al. Amino acids and their Cu complexes covalently grafted onto a polystyrene resin-A vibrational spectroscopic study. Journal of Molecular Structure. Volumes 834-836, 27 May 2007, Pages 345-348.

Zhu H, et al. L-tyrosine methyl ester-stabilized carbon dots as fluorescent probes for the assays of biothiols. Anal Chim Acta. 2018 May 2;1006:83-89.

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