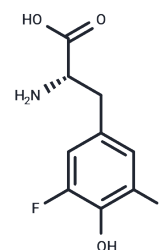


## 3,5-Difluoro-L-tyrosine

## Chemical Properties

CAS No. :	73246-30-7
Formula:	C <sub>9</sub> H <sub>9</sub> F <sub>2</sub> NO <sub>3</sub>
Molecular Weight:	217.17
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	3,5-Difluoro-L-tyrosine is a functional and tyrosinase-resistant tyrosine mimic, commonly used to evaluate the substrate specificity of protein tyrosine phosphatases (PTPs).
Targets(IC50)	Others, Phosphatase
In vitro	3,5-Difluoro-L-tyrosine (F2Y), a fluorinated tyrosine analog, is fully compatible with library synthesis, screening, and sequence identification processes. It effectively mimics tyrosine's functionality, particularly its binding capability to the active site of PTPs[1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.6047 mL	23.0234 mL	46.0469 mL
5 mM	0.9209 mL	4.6047 mL	9.2094 mL
10 mM	0.4605 mL	2.3023 mL	4.6047 mL
50 mM	0.0921 mL	0.4605 mL	0.9209 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

Bhaskar Gopishetty, et al. Synthesis of 3,5-difluorotyrosine-containing peptides: application in substrate profiling of protein tyrosine phosphatases. Org Lett. 2008 Oct 16;10(20):4605-8.

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