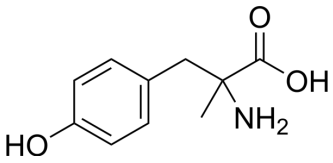
α-Methyl-p-tyrosine

Cat. No.:	HY-33549		
CAS No.:	658-48-0		
Molecular Formula:	$C_{10}H_{13}NO_3$		
Molecular Weight:	195.22		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

H_2O : 2 mg/mL (10.24 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
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

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

α-Methyl-p-tyrosine is a competitive inhibitor of the enzyme tyrosine hydroxylase, which converts tyrosine to Levodopa (DOPA). α-Methyl-p-tyrosine is an orally active inhibitor of catecholamine synthesis which inhibits the hydroxylation of tyrosine to DOPA[1].

REFERENCES

[1]. R N Brogden, et al. alpha-Methyl-p-tyrosine: a review of its pharmacology and clinical use. Drugs. 1981 Feb;21(2):81-9.

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