

α -Methyltyrosine methyl ester hydrochloride

Cat. No.: HY-W013407

CAS No.: 7361-31-1

Molecular Formula: $C_{11}H_{16}ClNO_3$

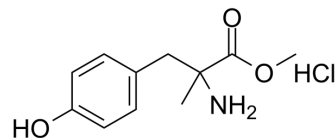
Molecular Weight: 245.7

Target: Others

Pathway: Others

Storage: 4°C, sealed storage, away from moisture

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

H₂O : 25 mg/mL (101.75 mM; Need ultrasonic)

DMSO : 9.09 mg/mL (37.00 mM; ultrasonic and warming and heat to 60°C)

| Preparing Stock Solutions | Solvent Concentration | Mass | | |
|---------------------------|-----------------------|-----------|------------|------------|
| | | 1 mg | 5 mg | 10 mg |
| | 1 mM | 4.0700 mL | 20.3500 mL | 40.7000 mL |
| | 5 mM | 0.8140 mL | 4.0700 mL | 8.1400 mL |
| | 10 mM | 0.4070 mL | 2.0350 mL | 4.0700 mL |

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline

Solubility: ≥ 0.91 mg/mL (3.70 mM); Clear solution

2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE- β -CD in saline)

Solubility: ≥ 0.91 mg/mL (3.70 mM); Clear solution

3. Add each solvent one by one: 10% DMSO >> 90% corn oil

Solubility: ≥ 0.91 mg/mL (3.70 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

α -Methyltyrosine methyl ester hydrochloride is a competitive tyrosine hydroxylase inhibitor that inhibits the conversion of tyrosine to dopamine. α -Methyltyrosine methyl ester hydrochloride can be used as a tool for sympathetic nervous system research^[1].

REFERENCES

Caution: Product has not been fully validated for medical applications. For research use only.

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