Pi-Methylimidazoleacetic acid hydrochloride

Cat. No.: HY-113274A

CAS No.: 1071661-55-6

Molecular Formula: $C_6H_9ClN_2O_2$

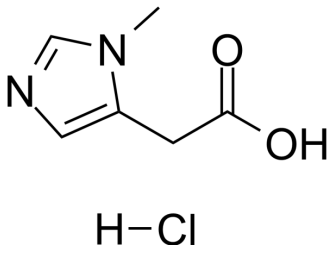
Molecular Weight: 176.6

Target: Endogenous Metabolite

Pathway: Metabolic Enzyme/Protease

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

DMSO : 125 mg/mL (707.81 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	5.6625 mL	28.3126 mL	56.6251 mL
	5 mM	1.1325 mL	5.6625 mL	11.3250 mL
	10 mM	0.5663 mL	2.8313 mL	5.6625 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: ≥ 2.08 mg/mL (11.78 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (11.78 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (11.78 mM); Clear solution

BIOLOGICAL ACTIVITY

Description Pi-Methylimidazoleacetic acid hydrochloride is a potential neurotoxin[1].

IC_{50} & Target Endogenous Metabolite[1]

REFERENCES

[1]. George D. Prell. pros-Methylimidazoleacetic Acid: A Potential Neurotoxin in Brain? Pharmacology of Endogenous Neurotoxins pp 171-187.

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

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