Isonipecotic acid

Cat. No.: HY-Y1176

CAS No.: 498-94-2

Molecular Formula: $C_6H_{11}NO_2$

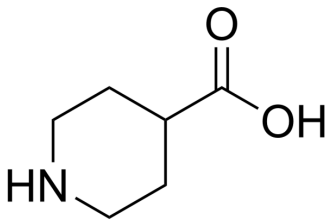
Molecular Weight: 129.16

Target: GABA Receptor

Pathway: Membrane Transporter/Ion Channel; Neuronal Signaling

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 : 100 mg/mL (774.23 mM; Need ultrasonic)

DMSO : < 1 mg/mL (ultrasonic) (insoluble or slightly soluble)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	7.7423 mL	38.7117 mL	77.4233 mL
5 mM	1.5485 mL	7.7423 mL	15.4847 mL
10 mM	0.7742 mL	3.8712 mL	7.7423 mL

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

BIOLOGICAL ACTIVITY

Description

Isonipecotic acid is a GABAA receptor partial agonist[1].

IC_{50} & Target

GABAA Receptor[1]

In Vitro

Isonipecotic acid inhibits [^{3}H]GABA binding (2°C) with an IC_{50} of 0.33 μM[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Krehan D, et al. Phosphinic, phosphonic and seleninic acid bioisosteres of isonipecotic acid as novel and selective GABA(C) receptor antagonists. Neurochem Int. 2003 Jun;42(7):561-5.

[2]. Falch E, et al. GABA-mimetic activity and effects on diazepam binding of aminosulphonic acids structurally related to piperidine-4-sulphonic acid. J Neurochem. 1985

Jan;44(1):68-75.

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