

(+)-Nipecotic acid

Chemical Properties

CAS No. :	59045-82-8
Formula:	C ₆ H ₁₁ NO ₂
Molecular Weight:	129.16
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	(+)-Nipecotic acid ((+)-β-Homoproline) is a specific inhibitor of GABA transport and uptake, capable of activating GABAA receptors and elevating endogenous GABA concentrations, suitable for psychiatric disorder research.
Targets(IC50)	GABA Receptor

Solubility Information

Solubility	DMSO: Soluble, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	7.7423 mL	38.7117 mL	77.4234 mL
5 mM	1.5485 mL	7.7423 mL	15.4847 mL
10 mM	0.7742 mL	3.8712 mL	7.7423 mL
50 mM	0.1548 mL	0.7742 mL	1.5485 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

- Zhang N, et al. Rapid determination of free prolyl dipeptides and 4-hydroxyproline in urine using flow-gated capillary electrophoresis. *Anal Bioanal Chem.* 2017 Dec;409(30):7077-7085.
- Schmidt SK, et al. Determination of enantiomeric excess of nipecotic acid as 1-(7-nitrobenzo[c][1,2,5]oxadiazol-4-yl) derivatives. *Chirality.* 2017 Jan;29(1):48-56.
- Tarassenko AS. Effect of nitric oxide donor SNAP on GABA release from rat brain nerve terminals. *Ukr Biochem J.* 2016 Sep-Oct;88(5):82-9.
- Rasmussen RN, et al. Interaction of GABA-mimetics with the taurine transporter (TauT, Slc6a6) in hyperosmotic treated Caco-2, LLC-PK1 and rat renal SKPT cells. *Eur J Pharm Sci.* 2016 Jan 20;82:138-46.

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