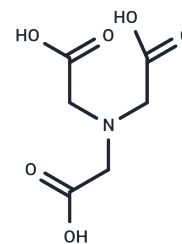


Nitrilotriacetic acid

Chemical Properties

CAS No. :	139-13-9
Formula:	C ₆ H ₉ NO ₆
Molecular Weight:	191.14
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	Nitrilotriacetic acid (Nitriloacetate) is a chelator that tracks and enriches His-tagged proteins in living cells by reacting with divalent metal ions-mediated 6His tagging.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 41.67 mg/mL (218.01 mM),Sonication is recommended. 0.1M NaOH: 15 mg/mL (78.48 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 4.17 mg/mL (21.82 mM),Solution. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.2318 mL	26.1588 mL	52.3177 mL
5 mM	1.0464 mL	5.2318 mL	10.4635 mL
10 mM	0.5232 mL	2.6159 mL	5.2318 mL
50 mM	0.1046 mL	0.5232 mL	1.0464 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

- Abdelazim MH, et al. Effect of intra-nasal nitrilotriacetic acid trisodium salt in lowering elevated calcium cations and improving olfactory dysfunction in COVID-19 patients. *Eur Arch Otorhinolaryngol.* 2022 Sep;279(9):4623-4628.
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- Ivan M, et al. The effects of nitrilotriacetic acid on solubilities of zinc, copper, manganese, and iron in the stomach of sheep. *Can J Physiol Pharmacol.* 1979 Apr;57(4):369-74.
- Chatterjee M, et al. Functionalization of hydroxy compounds with nitrilotriacetic acid for technetium-99m chelation: excretory properties of the radiolabelled chelates. *Int J Rad Appl Instrum B.* 1991;18(3):263-74.

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