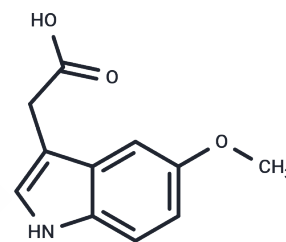


5-Methoxyindole-3-acetic acid

Chemical Properties

CAS No. :	3471-31-6
Formula:	C ₁₁ H ₁₁ NO ₃
Molecular Weight:	205.21
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	5-Methoxyindole-3-acetic acid (5-Methoxyindoleacetic acid) is a metabolite of Melatonin and is isolated from pineal tissue.
Targets(IC50)	Endogenous Metabolite
In vivo	Transplacental administration of 5-methoxyindole-3-acetic acid possessing blastomogenic activity induced the development of malignant and benign neoplasms (lymphosarcomas, adenomas, hepatomas and other tumours) in 84% of C57BL/6 mouse progeny. The number of neoplasms was significantly higher, than in the control, they appeared earlier and were more malignant[2].

Solubility Information

Solubility	DMSO: 247.5 mg/mL (1206.08 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (16.08 mM), Sonication is recommended. <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	4.8731 mL	24.3653 mL	48.7306 mL
5 mM	0.9746 mL	4.8731 mL	9.7461 mL
10 mM	0.4873 mL	2.4365 mL	4.8731 mL
50 mM	0.0975 mL	0.4873 mL	0.9746 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

Yáñez J, Meissl H. Secretion of the methoxyindoles melatonin, 5-methoxytryptophol, 5-methoxyindoleacetic acid, and 5-methoxytryptamine from trout pineal organs in superfusion culture: effects of light intensity. *Gen Comp Endocrinol.* 1996 Feb;101(2):165-72.

Malakhova NV, Raushenbakh MO. Transplatsentarnoe kantserogennoe vozdeĭstvie proizvodnogo serotoninina 5-metoksiindolil-3-uksusnoĭ kisloty [Transplacental carcinogenic effect of the serotonin derivative 5-methoxyindoleacetic acid]. *Biull Eksp Biol Med.* 1986 May;101(5):605-7. Russian.

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