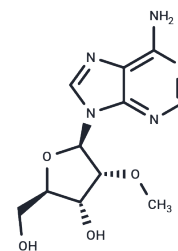


## 2'-O-Methyladenosine

## Chemical Properties

CAS No. :	2140-79-6
Formula:	C <sub>11</sub> H <sub>15</sub> N <sub>5</sub> O <sub>4</sub>
Molecular Weight:	281.27
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	2'-O-Methyladenosine, a methylated adenosine residue, is present in the urine of both normal individuals and patients with adenosine deaminase deficiency, and exhibits unique hypotensive activities.
Targets(IC50)	Endogenous Metabolite
In vivo	2'-O-Methyladenosine (100, 200 mg/kg, i.p., single dose) demonstrates distinct hypotensive effects in rats [2].
Animal Research	Animal Model: Male spontaneously hypertensive rats (SHR; 16 weeks old). Dosage: 100, 200 mg/kg. Administration: I.P., single dose.[2]

## Solubility Information

Solubility	DMSO: 55 mg/mL (195.54 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: 2.5 mg/mL (8.89 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

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	1mg	5mg	10mg
1 mM	3.5553 mL	17.7765 mL	35.553 mL
5 mM	0.7111 mL	3.5553 mL	7.1106 mL
10 mM	0.3555 mL	1.7777 mL	3.5553 mL
50 mM	0.0711 mL	0.3555 mL	0.7111 mL

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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

Hirschhorn R, et al. Increased excretion of modified adenine nucleosides by children with adenosine deaminase deficiency. *Pediatr Res.* 1982 May;16(5):362-9.

Yamada T, et al. Naturally occurring 2'-O-methylpurine nucleosides with hypotensive properties. *Cell Mol Life Sci.* 1998 Feb;54(2):125-8.

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