SZABO SCANDIC

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# Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

## Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

## Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand


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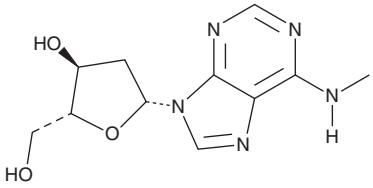
# PRODUCT INFORMATION

## $N^6$-Methyl-2'-deoxyadenosine

*Item No. 40407*

| | |
|---|---|
| **CAS Registry No.:** | 2002-35-9 |
| **Formal Name:** | 2′-deoxy-N-methyl-adenosine |
| **Synonyms:** | 6mdA, $m^6$dA, $N^6$-Methyl-dAdo, $N^6$-Methyl-dA, $N^6$-Methyldeoxyadenosine |
| **MF:** | $C_{11}H_{15}N_5O_3$ |
| **FW:** | 265.3 |
| **Purity:** | ≥98% |
| **Supplied as:** | A solid |
| **Storage:** | -20°C |
| **Stability:** | ≥4 years |




*Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.*

### Laboratory Procedures

$N^6$-Methyl-2'-deoxyadenosine is supplied as a solid. A stock solution may be made by dissolving the $N^6$-methyl-2'-deoxyadenosinin the solvent of choice, which should be purged with an inert gas. $N^6$-Methyl-2'-deoxyadenosin is soluble in methanol and DMSO.

### Description

$N^6$-Methyl-2'-deoxyadenosin is a nucleoside and inducer of erythroid progenitor cell (EPC) proliferation.[1] It stimulates the proliferation of EPCs isolated from mouse fetal livers and colony formation of isolated mouse bone marrow cell-derived progenitor cells when used at concentrations of 10 and 100 µM. $N^6$-Methyl-2'-deoxyadenosin accumulates along promoters and gene coding sequences in activated mouse prefrontal cortical neurons and is associated with activation at the brain-derived neurotrophic factor (Bdnf) P4 promoter, which is essential to the extinction of conditioned fear.[2]

### References


1. Li, Y., Liang, Z.-Y., and Wang, H.-L. N6-methyl-2'-deoxyadenosine promotes self-renewal of BFU-E progenitor in erythropoiesis. *iScience* **26(6)**, 106924 (2023).
2. Li, X., Zhao, Q., Wei, W., *et al.* The DNA modification N6-methyl-2'-deoxyadenosine (m6dA) drives activity-induced gene expression and is required for fear extinction. *Nat. Neurosci.* **22(4)**, 534-544 (2019).





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