

产品名称: N6-甲基腺苷

产品别名: **N6-Methyladenosine; 6-Methyladenosine; N-Methyladenosine**

生物活性:					
Description	N6-Methyladenosine is the most prevalent internal (non-cap) modification present in the messenger RNA (mRNA) of all higher eukaryotes.				
In Vitro	N6-methyladenosine (m6A) is selectively recognized by the human YTH domain family 2 (YTHDF2) protein to regulate mRNA degradation. N6-methyladenosine (m6A), a prevalent internal modification in the messenger RNA of all eukaryotes, is post-transcriptionally installed by m6A methyltransferase (e.g., MT-A70) within the consensus sequence of G(m6A)C (70%) or A(m6A)C (30%). N6-methyladenosine (m6A)-containing RNAs are greatly enriched in the YTHDF-bound portion and diminished in the flow-through portion[1]. N6-methyladenosine (m6A), the most abundant internal RNA modification, functions in diverse biological processes, including regulation of embryonic stem cell self-renewal and differentiation. N6-methyladenosine (m6A) is a large protein complex, consisting in part of methyltransferase-like 3 (METTL3) and methyltransferase-like 14 (METTL14) catalytic subunits[2].				
In Vitro: DMSO : ≥ 31 mg/mL (110.21 mM) * "≥" means soluble, but saturation unknown.					
Preparing Stock Solutions	Solvent Concentration	Mass 1 mg	5 mg	10 mg	
	1 mM	3.5553 mL	17.7765 mL	35.5530 mL	
	5 mM	0.7111 mL	3.5553 mL	7.1106 mL	
	10 mM	0.3555 mL	1.7777 mL	3.5553 mL	
Solvent&Solubility	*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液。一旦配成溶液，请分装保存，避免反复冻融造成的产品失效。 储备液的保存方式和期限 -80°C, 6 months; -20°C, 1 month。 -80°C 储存时，请在 6 个月内使用，-20°C 储存时，请在 1 个月内使用。				
	In Vivo: 请根据您的实验动物和给药方式选择适当的溶解方案。以下溶解方案都请先按照 In Vitro 方式配制澄清的储备液，再依次添加助溶剂： ——为保证实验结果的可靠性，澄清的储备液可以根据储存条件，适当保存；体内实验的工作液，建议您现用现配，当天使用；以下溶剂前显示的百分比是指该溶剂在您配制终溶液中的体积占比；如在配制过程中出现沉淀、析出现象，可以通过加热和/或超声的方式助溶 1.请依序添加每种溶剂： 10% DMSO→40% PEG300 →5% Tween-80 → 45% saline Solubility: ≥ 2.08 mg/mL (7.40 mM); Clear solution 此方案可获得 ≥ 2.08 mg/mL (7.40 mM, 饱和度未知) 的澄清溶液。 以 1 mL 工作液为例，取 100 μL 20.8 mg/mL 的澄清 DMSO 储备液加到 400 μL PEG300 中，混合均匀；向上述体系中加入 50 μL Tween-80，混合均匀；然后继续加入 450 μL 生理盐水定容至 1 mL。 2.请依序添加每种溶剂： 10% DMSO→ 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (7.40 mM); Clear solution 此方案可获得 ≥ 2.08 mg/mL (7.40 mM, 饱和度未知) 的澄清溶液。 以 1 mL 工作液为例，取 100 μL 20.8 mg/mL 的澄清 DMSO 储备液加到 900 μL 20% 的 SBE-β-CD 生理盐水溶液中，混合均匀。				

	<p>3.请依序添加每种溶剂： 10% DMSO → 90% corn oil Solubility: ≥ 2.08 mg/mL (7.40 mM); Clear solution</p> <p>此方案可获得 ≥ 2.08 mg/mL (7.40 mM, 饱和度未知) 的澄清溶液，此方案不适用于实验周期在半个月以上的实验。</p> <p>以 1 mL 工作液为例，取 100 μL 20.8 mg/mL 的澄清 DMSO 储备液加到 900 μL 玉米油中，混合均匀。</p>
References	<p>[1]. Wang X, et al. N6-methyladenosine-dependent regulation of messenger RNA stability. Nature. 2014 Jan 2;505(7481):117-20.</p> <p>[2]. Li Y, et al. Genome-wide detection of high abundance N6-methyladenosine sites by microarray. RNA. 2015 Aug;21(8):1511-8.</p>



源叶生物