

Product Datasheet

N6-Propargyl-adenosine (orb1734892)

Catalog Number	orb1734892
Category	Small Molecules
Description	N6-propargyl-adenosine (N6pA) can be used to measure de novo mRNA poly(A) tail synthesis in proliferating cells. N6pA is cell permeable and incorporates into nascent mRNA transcripts both transcriptionally by RNA polymerase I, II and III and posttranscription-ally by poly(A) polymerase instead of their natural analog adenosine. The resulting ethynyl-functionalized RNA can subsequently be detected via Cu(I)-catalyzed click chemistry that offers the choice to introduce a Biotin group (via Azides of Biotin) for subsequent purification tasks or a fluorescent group (via Azides of fluorescent dyes) for subsequent microscopic imaging.
Form/Appearance	solid; Color: white to off-white
Purity	95% (HPLC)
MW	Theoretical MW: 305.29 g/mol; Detected MW: 305.11 g/mol
Application notes	mRNA poly(A) tail synthesis monitoring. Spectroscopic Propertie : max 262 nm, 18.0 L mmol ⁻¹ cm ⁻¹ (Tris-HCl, pH 7.5).
Formula	C ₁₃ H ₁₅ N ₅ O ₄
SMILES	<chem>c1(c2c(ncn1)n(cn2)[C@H]1[C@@H]([C@@H]([C@H](O1)CO)O)O)NCC#C</chem>
Storage	store at -20 °C. Short term exposure (up to 1 week cumulative) to ambient temperature possible
Note	For research use only
Expiration Date	12 months from date of receipt.

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