

Product Datasheet

2-Ethynyl-adenosine (orb1734891)

Catalog Number	orb1734891
Category	Small Molecules
Description	2-Ethynyl-labeled adenosine (2-EA) can be used to measure de novo mRNA poly(A) tail synthesis in proliferating cells. 2-EA 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: 291.26 g/mol; Detected MW: 291.10 g/mol
Application notes	mRNA poly(A) tail synthesis monitoring.
Solubility (25°C)	up to 4.0 mM in 1x PBS
Formula	C ₁₂ H ₁₃ N ₅ O ₄
SMILES	<chem>c12c(nc(nc2n(cn1)[C@H]1[C@@H]([C@@H]([C@H](O1)CO)O)O)C#C)N</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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