

Product Datasheet

2-Ethynyl-ATP (2-EATP) (orb1734887)

Catalog Number	orb1734887
Category	Small Molecules
Description	2-Ethynyl-labeled adenosine triphosphate (2-EATP) is suitable for in vitropolyadenylation of RNA with recombinant poly(A) polymerase. The resulting Alkyne-functionalized RNA can subsequently be processed via Cu(I)-catalyzed Azide-Alkyne click chemistry (CUAAC) that offers the choice: to introduce a Biotin group for subsequent purification tasks (via Azides of Biotin); to introduce fluorescent group for subsequent microscopic imaging (via Azides of fluorescent dyes); to crosslink the RNA to azide-functionalized biomolecules e.g. proteins.
Form/Appearance	solution in 100 mM Tris-HCl; Color: colorless to slightly yellow; pH: 7.5 0.5
Concentration	10 mM-11 mM
Purity	90% (HPLC), contains approx. 6% 2-Ethynyl-ADP
MW	Theoretical MW: 531.20 g/mol; Detected MW: 531.00 g/mol
Application notes	in vitro polyadenylation of RNA. Spectroscopic Propertie: max 265 nm, 10.6 L mmol ⁻¹ cm ⁻¹ (Tris-HCl, pH 7.5).
Formula	C ₁₂ H ₁₆ N ₅ O ₁₃ P ₃
SMILES	<chem>[C@@H]1([C@@H](O[C@@H]([C@H]1O)COP(=O)(OP(=O)(OP(=O)(O)O)O)O)n1cn2c(nc(nc12)C#C)N)O</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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